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ABSTRACT

The third of nine volumes in the SER-LARS (Special Education Resources Location Analysis and Retrieval System) series, a diagnostic-prescriptive instructional data bank for teachers of handicapped children, presents learning objectives organized by content descriptions. Entries give a history of the use of each objective along with information on instructional materials, instructional methods, and objective referenced measures which were reported by users in prescriptions directed toward that objective. Objectives are presented for the following content areas (sample subtopics in parentheses): grammar (parts of speech, punctuation); handwriting; spelling (finger spelling); speech and language development (echolalia, stuttering); study skills; mathematics (base number systems, addition, subtraction, multiplication, division, decimals, money skills); geography; history; political science; and science. (CL)

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SER-LARS

SPECIAL EDUCATION RESOURCES
LOCATION ANALYSIS AND RETRIEVAL
SYSTEM

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

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VOLUME 3

LEARNING OBJECTIVE HISTORY II

The National Learning Resource Center of Pennsylvania (NLRC/P), A Project of the Pennsylvania Department of Education (Bureau of Special and Compensatory Education), with Montgomery County Intermediate Unit No. 23 as Local Education Agency

For further information, please contact the National Learning Resource Center of Pennsylvania, 500 Valley Forge Plaza, 1150 First Avenue, King of Prussia, PA 19406 (telephone 1-215-265-3706).

1975-76 Edition

EC 120517

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CONTENT AREA: E1-01 GRAM./ADJECTIVES, DETERMINERS

SOURCE: CRTR

OBJECTIVE: 15142 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE SPELLINGS FOR ADJECTIVE FORMS, THE PUPIL USES RULES FOR SPELLING COMPARATIVE AND SUPERLATIVE ADJECTIVE FORMS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15143 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE ADJECTIVE, THE PUPIL USES RULES FOR COMPARATIVE AND SUPERLATIVE ADJECTIVE FORMS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15273 GIVEN INCOMPLETE SENTENCES, THE STUDENT USES CONTEXT CLUES TO COMPLETE THE SENTENCES WITH TEMPORAL ADJECTIVES AND PREPOSITIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15301 GIVEN SIMPLE SENTENCES WITH PERSON, PLACE OR PROPERTY-DESCRIBING ADJECTIVES, AND LISTS OF ALTERNATIVE WORDS FROM EACH SENTENCE, THE PUPIL IDENTIFIES ADJECTIVES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15307 GIVEN INCOMPLETE SIMPLE SENTENCES IN WHICH SINGULAR OR PLURAL DETERMINERS ARE MISSING, AND LISTS OF ALTERNATIVE WORDS, THE PUPIL USES DETERMINERS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15330 GIVEN A LIST OF SENTENCES, THE PUPIL IDENTIFIES THE NOUNS AND THEIR MODIFIERS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15343 GIVEN A LIST OF SENTENCES, THE STUDENT DEMONSTRATES THE RULES FOR USING ADJECTIVES, ADVERBS AND PREPOSITIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15344 GIVEN A LIST OF SENTENCES, THE STUDENT CAN IDENTIFY THE ADJECTIVES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09408 GIVEN A PICTURE OF A SINGLE OBJECT, THE CHILD WILL BE ABLE TO ORALLY DESCRIBE FEATURES OF THE OBJECT USING SEVERAL DIFFERENT ADJECTIVES.

OBJECTIVE: 09408 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07042	WORLD ABOUT US LOTTO	1	3.00	5-11 TO 5-11	**************
07043	OBJECT LOTTO	1	2.00	5-11 TO 5-11	**************

OBJECTIVE: 09409 GIVEN ASSORTED HIDDEN OBJECTS TO FEEL, THE CHILD CAN USE DESCRIPTIVE WORDS TO TELL ABOUT THE OBJECT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09410 GIVEN A PICTURE, THE CHILD CAN USE ENOUGH DESCRIPTIVE WORDS TO TELL ABOUT THE PICTURE SO THAT ANOTHER CHILD CAN TELL WHAT IS IN THE PICTURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09411 GIVEN A PICTURE IN WHICH TWO ADJECTIVAL ANTONYMS ARE ILLUSTRATED, THE CHILD WILL BE ABLE TO SUPPLY A MISSING ANTONYM IN AN ORALLY READ SENTENCE DESCRIBING THE PICTURE.

NO IMPLEMENTATION RECORD 1973-1974

E1-01 (CONTINUED)

OBJECTIVE: 09412 GIVEN SENTENCES CONTAINING CORRECT AND INCORRECT DETERMINERS (ARTICLES, INDEFINITE PRONOUNS, AND DEMONSTRATIVE PRONOUNS), THE CHILD WILL BE ABLE TO IDENTIFY THE CORRECT SENTENCE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09424 GIVEN A SET OF THREE OR MORE REAL OR PICTURED OBJECTS WHICH ARE IDENTICAL EXCEPT THAT THEY REPRESENT DIFFERENT DEGREES ALONG SOME DIMENSION (SUCH AS COLOR, SIZE, ETC.), THE CHILD WILL BE ABLE TO IDENTIFY PARTICULAR OBJECTS, FOLLOWING DIRECTIONS IN WHICH A COMPARATIVE OR SUPERLATIVE ADJECTIVE IS USED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09425 GIVEN THREE DIFFERENT REAL OR PICTURED OBJECTS, THE CHILD WILL BE ABLE TO ANSWER QUESTIONS CONTAINING COMPARATIVE OR SUPERLATIVE ADJECTIVES.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90744 THE STUDENT WILL CHANGE AN ADJECTIVE TO COMPARATIVE AND SUPERLATIVE FORMS

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OBJECTIVE:  90744  (CONTINUED)
RESOURCE                                                NUMBER    EFF    CHRONOLOGICAL       MENTAL
NUMBER                       TITLES                     OF USES  RATING       AGE              AGE
                                                                 (1=HI)  -1SD TO +1SD     -1SD TO +1SD
     METHODS
52847  CHANGING ADJECTIVES TO COMPARATIVE AND SUPER  1       2.00 13- 1 TO 13- 1  10- 0 TO 10- 0
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SOURCE:  SUBURBAN UNIT


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OBJECTIVE:  90305  GIVEN A LIST OF SINGULAR NOUNS, THE STUDENT WILL BE ABLE TO
                   IDENTIFY THE NOUNS FOR WHICH THE ARTICLE "A" SHOULD BE USED
                   AND THOSE FOR WHICH "AN" SHOULD BE USED.

RESOURCE                                                NUMBER    EFF    CHRONOLOGICAL       MENTAL
NUMBER                       TITLES                     OF USES  RATING       AGE              AGE
                                                                 (1=HI)  -1SD TO +1SD     -1SD TO +1SD
     MATERIALS
90278  'A' OR 'AN' FILL IN WORKSHEET                    1        1.00  9- 4 TO  9- 4  **************
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CONTENT AREA:  E1-02 GRAM./ADVERB

SOURCE:  CRTR


OBJECTIVE:  15249  GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE SPATIAL
                   AND TEMPORAL ADVERBS AND SPATIAL PREPOSITIONS, THE STUDENT
                   CLASSIFIES BY CONTEXT CLUES WITH 95% ACCURACY.

                         NO IMPLEMENTATION RECORD 1973-1974
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OBJECTIVE: 15250 GIVEN INCOMPLETE SENTENCES USING SPATIAL DIRECTION WORDS AND LISTS OF ALTERNATIVE WORDS, THE STUDENT IDENTIFIES SPATIAL ADVERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15252 GIVEN INCOMPLETE SENTENCES CONTAIINING TEMPORAL WORDS AND LISTS OF ALTERNATIVE WORDS, THE STUDENT IDENTIFIES TEMPORAL ADVERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15281 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE WORDS, THE STUDENT DEMONSTRATES WITH MODIFYING WORDS, THE USE OF ADVERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15282 GIVEN DEFINITIONS OF MODIFYING WORDS FOLLOWED BY INCOMPLETE SENTENCES WITH ALTERNATIVE CHOICES, THE STUDENT IDENTIFIES APPROPRIATE ADVERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15312 GIVEN SENTENCES CONTAINING ONE UNDERLINED WORD AND LISTS OF ALTERNATIVE NAMES FOR THE WORD STRUCTURES, THE PUPIL CORRECTLY CLASSIFIES ADJECTIVES, ADVERBS, AND PREPOSITIONS WITH 95% ACCURACY

NO IMPLEMENTATION RECORD 1973-1974

E1-02 (CONTINUED)

OBJECTIVE: 15313 GIVEN INCOMPLETE SENTENCES IN WHICH ADVERBS OF PLACE, MANNER, OR TIME ARE MISSING, AND LISTS OF ALTERNATIVE WORDS, THE PUPIL USES ADVERBS IN CONTEXT WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15331 GIVEN A LIST OF SENTENCES, THE STUDENT IDENTIFIES THE VERBS AND THEIR ADVERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15343 GIVEN A LIST OF SENTENCES, THE STUDENT DEMONSTRATES THE RULES FOR USING ADJECTIVES, ADVERBS AND PREPOSITIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15345 GIVEN A LIST OF SENTENCES, THE STUDENT IDENTIFIES THE ADVERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09413 GIVEN A PAIR OF SENTENCES, ONE CONTAINING AN ADVERB AND THE OTHER CONTAINING AN ADJECTIVE INAPPROPRIATELY USED AS AN ADVERB, THE CHILD WILL BE ABLE TO IDENTIFY THE CORRECT SENTENCE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09414 GIVEN A PICTURE AND ONE ADVERB WHICH MAY BE USED TO DESCRIBE IT, THE CHILD WILL BE ABLE TO SUPPLY ANOTHER ADVERB (AN ANTONYM) TO COMPLETE AN ORALLY READ SENTENCE DESCRIBING THE PICTURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09415 GIVEN AN ACTIVITY WHICH OCCURRED, THE CHILD WILL BE ABLE TO DESCRIBE HOW THAT ACTIVITY WAS PERFORMED USING AN ADVERB.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09426 GIVEN A PICTURE STORY, THE CHILD CAN ANSWER QUESTIONS THAT USE ADVERBS OF TIME.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09431 GIVEN OBJECTS AND A DIRECTION WHICH CONTAIN CONJUNCTIONS AND ADVERBS, THE CHILD CAN PUT OBJECTS IN THE POSITIONS DESIGNATED IN THE DIRECTIONS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-03 GRAM./CAPITALIZATION

SOURCE: CRTR

OBJECTIVE: 15308 GIVEN UNPUNCTUATED AND UNCAPITALIZED SENTENCES, AND ALTERNATIVE WAYS OF PUNCTUATING AND CAPITALIZING, THE PUPIL USES RULES FOR PUNCTUATION AND CAPITALIZATION WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15317 GIVEN GROUPS OF WORDS, THE PUPIL DEMONSTRATES THE PUNCTUATION, CAPITALIZATION AND QUOTATION RULES FOR CONVERTING THE GROUPS INTO SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15320 GIVEN SENTENCES WITH NO CAPITALIZATION, THE PUPIL CAN DEMONSTRATE RULES FOR CAPITALIZATION BY CORRECTING THE SENTENCES WITH 95% ACCURACY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
07677	CAPITALIZATION AND PUNCTUATION - LEVEL C	1	3.00	13-10 TO 13-10	11- 2 TO 11- 2

SOURCE: SUMMER TRAINEESHIP PROGRAM - CLARION STATE COLLEGE

OBJECTIVE: 85008 WHEN GIVEN A SENTENCE OR LIST OF WORDS THE STUDENT WILL RECOPY THE SENTENCE OR LIST USING CAPITAL LETTERS WHEN APPROPRIATE

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52618	USING CAPITAL LETTERS ON PROPER NOUNS	1	1.00	15- 3 TO 15- 3	**************

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90484 THE STUDENT WILL BE ABLE TO CAPITALIZE PROPER NOUNS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90485 THE STUDENT WILL BE ABLE TO APPLY GENERAL CAPITALIZATION RULES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90746 THE STUDENT WILL MAKE THE CORRECT USE OF CAPITAL LETTERS IN SENTENCES GIVEN AT THE THIRD LEVEL

OBJECTIVE: 90746 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03357	MOTT SEMI-PROGRAMMED SERIES, BOOK 1609	1	***[illegible]	[illegible]3- 6 TO 13- 6	10- 0 TO 10- 0
07677	CAPITALIZATION AND PUNCTUATION - LEVEL C	1	3.[illegible]	13- 6 TO 13- 6	10- 0 TO 10- 0
	METHODS				
52849	USING CAPITAL LETTERS CORRECTLY	1	***.**	13- 6 TO 13- 6	10- 0 TO 10- 0

CONTENT AREA: E1-05 GRAM./CONJUNCTION, PREPOSITION, INTERJECTION

SOURCE: CRTR

OBJECTIVE: 15251 GIVEN INCOMPLETE SENTENCES USING SPATIAL DIRECTION WORDS AND LISTS OF ALTERNATIVE WORDS, THE STUDENT IDENTIFIES SPATIAL PREPOSITIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15273 GIVEN INCOMPLETE SENTENCES, THE STUDENT USES CONTEXT CLUES TO COMPLETE THE SENTENCES WITH TEMPORAL ADJECTIVES AND PREPOSITIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15283 GIVEN SHORT SELECTED READINGS WITH INCOMPLETE SENTENCES, THE STUDENT DEMONSTRATES THE USE OF CONJUNCTION AND RELATION WORDS BY COMPLETING THE SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15285 GIVEN INCOMPLETE SENTENCES, THE STUDENT CHOOSES THE APPROPRIATE TYPE OF CONNECTIVE (CONTRAST OR ADDITION TYPE) FOR THE SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15286 GIVEN INCOMPLETE SENTENCES, THE STUDENT CHOOSES THE APPROPRIATE TYPE OF CONNECTIVE (EXCEPTION OR CONDITION TYPE) FOR THE SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15302 GIVEN SENTENCES WITH SPATIAL, TEMPORAL OR OTHER PREPOSITIONS, AND LISTS OF ALTERNATIVE WORDS, THE PUPIL IDENTIFIES PREPOSITIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15312 GIVEN SENTENCES CONTAINING ONE UNDERLINED WORD AND LISTS OF ALTERNATIVE NAMES FOR THE WORD STRUCTURES, THE PUPIL CORRECTLY CLASSIFIES ADJECTIVES, ADVERBS, AND PREPOSITIONS WITH 95% ACCURACY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15343 GIVEN A LIST OF SENTENCES, THE STUDENT DEMONSTRATES THE RULES FOR USING ADJECTIVES, ADVERBS AND PREPOSITIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15346 GIVEN A LIST OF SENTENCES, THE STUDENT IDENTIFIES THE PREPOSITIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09427 GIVEN DIRECTIONS USING PREPOSITIONS, THE CHILD CAN FOLLOW THE DIRECTIONS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
04379	DEVELOPING LEARNING READINESS: TEACHER'S MA	1	2.00	7- 0 TO 7- 0	5- 6 TO 5- 6

OBJECTIVE: 09428 GIVEN A SET OF PICTURES AND AN ORAL SENTENCE USING A PREPOSITION, THE CHILD CAN POINT TO THE PICTURE THAT CORRESPONDS TO THE SENTENCE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09429 GIVEN A STATIONARY OBJECT AND A MOVEABLE OBJECT, THE CHILD CAN USE A PREPOSITION TO TELL WHERE THE MOVABLE OBJECT IS LOCATED IN RELATION TO THE POSITION OF THE STATIONARY OBJECT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	10- 0 TO 10- 0	**************

OBJECTIVE: 09430 GIVEN PICTURES, THE CHILD CAN TELL ABOUT SPATIAL LOCATIONS BY USING THE CORRECT PREPOSITIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09431 GIVEN OBJECTS AND A DIRECTION WHICH CONTAIN CONJUNCTIONS AND ADVERBS, THE CHILD CAN PUT OBJECTS IN THE POSITIONS DESIGNATED IN THE DIRECTIONS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03565	ATTRIBUTE GAMES AND PROBLEMS	2	1.50	7- 1 TO 7- 3	4- 3 TO 4- 3

E1-05 (CONTINUED)

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90742 THE STUDENT WILL SELECT CORRECT PREPOSITIONS FOR SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90081 GIVEN PRE-READING LEVEL SCHEMATIC PICTURES REPRESENTING DIFFERENT ACTIONS, STUDENT VERBALIZES THESE IN A CONJOINT SENTENCE USING THE CONJUNCTION 'BUT' (E.G. 'THE GIRL IS SWIMMING, BUT THE BIRD IS FLYING').

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90083 GIVEN A PRE-READING LEVEL SCHEMATIC PICTURE REPRESENTING SEVERAL OBJECTS/ANIMALS, ETC., AND GIVEN AN ORAL STIMULUS QUESTION (E.G. 'WHAT DOES THE PICTURE SHOW'), STUDENT VERBALIZES AN EXPANDED SIMPLE SENTENCE USING THE CONJUNCTION 'AND' (E.G. 'THE PICTURE SHOWS HORSES AND AN APPLE AND A BABY').

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-06 CREATIVE WRITING ACTIVITIES

SOURCE: SUBURBAN UNIT

OBJECTIVE: 90303 GIVAN A FLASH CARD CONTAINING A SHORT PHRASE, THE STUDENT WILL BE ABLE TO USE THAT PHRASE IN A SHORT STORY

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
90284	FLASH CARDS	3	**2.00	8- 2 TO 11- 0	7- 7 TO 8- 9

OBJECTIVE: 90316 GIVEN A FAMILIAR PHRASE, BE ABLE TO ADD TO THIS PHRASE TO DICTATE A SHORT STORY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90317 GIVEN A FAMILIAR PHRASE, BE ABLE TO ADD TO THIS PHRASE TO WRITE A SHORT SOTRY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
90284	FLASH CARDS	1	2.00	11- 3 TO 11- 3	7- 6 TO 7- 6

OBJECTIVE: 90319 GIVEN A PICTURE STIMULUS, BE ABLE TO DICTATE A SHORT SOTRY.

OBJECTIVE: 90319 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
04146	PLDK, LEVEL P STIMULUS CARDS	1	2.00	11- 3 TO 11- 3	7- 6 TO 7- 6

CONTENT AREA: E1-10 GRAM./NOUN

SOURCE: CRTR

OBJECTIVE: 15298 GIVEN SIMPLE SENTENCES WITH NOUNS OF PERSON, PLACE AND THING THE PUPIL IDENTIFIES THE NOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15306 GIVEN SENTENCES WITH SUBJECTS THAT INCLUDE NOUN PHRASE STRUCTURES THAT ARE PROPER NOUN, PRONOUN, AND COMMON NOUN, AND PREDICATES INCLUDING TRANSITIVE VERB, INTRANSITIVE VERB, OR LENDING VERBS, AND LISTS OF ALTERNATIVE FUNCTIONS: THE PUPIL USES RULES TO DETERMINE WHICH ARE NOUNS AND WHICH ARE VERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15327 GIVEN A LIST OF SENTENCES WITH MORE THAN ONE NOUN, THE PUPIL IDENTIFIES THE NOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15329 GIVEN SENTENCES CONTAINING NONSENSE WORDS, THE STUDENT DEMONSTRATES, USING NOUNS AND VERBS, THE RULES FOR THEIR USE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15330 GIVEN A LIST OF SENTENCES, THE PUPIL IDENTIFIES THE NOUNS AND THEIR MODIFIERS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90481 THE STUDENT WILL RECOGNIZE AND SELECT PROPER NOUNS FROM A LIST OF 70 WORDS AND FROM A NUMBER OF SENTENCES

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03979	OUR LANGUAGE TODAY 7	1	2.00	13- 1 TO 13- 1	10- 0 TO 10- 0
07516	THE NEW BUILDING BETTER ENGLISH 7, HANDBOOK	1	2.00	13- 1 TO 13- 1	10- 0 TO 10- 0

OBJECTIVE: 90711 THE STUDENT WILL BE ABLE TO RECOGNIZE THE NOUNS IN A SENTENCE OR SENTENCES AND LABEL THEIR USEAGE.

OBJECTIVE: 90711 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07695	MODERN GRAMMER AND COMPOSITION - I	1	3.00	15- 5 TO 15- 5	13- 0 TO 13- 0

OBJECTIVE: 90713 THE STUDENT WILL SELECT THE NOUNS OF DIRECT ADDRESS FORM 20 SENTENCES AND LABEL APPROPRIATELY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07514	ENGLISH FOR MEANING GRADE 7	1	1.00	13- 1 TO 13- 1	10- 0 TO 10- 0

OBJECTIVE: 90751 THE STUDENT WILL RECOGNIZE AND SELECT ALL PROPER NOUNS FROM A LIST OF 20 WORDS AND SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90754 THE STUDENT WILL IDENTIFY VERBS AND NOUNS FROM A LIST OF SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-11 COMP./ORGANIZATION

SOURCE: WESTERN UNIT

OBJECTIVE: 90715 THE STUDENT WILL IDENTIFY THE PARTS OF A LETTER

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-14 GRAM./PARTS OF SPEECH

SOURCE: IOX

OBJECTIVE: 09405 PARTS OF SPEECH (USES): GIVEN WRITTEN OR ORAL EXERCISES, THE CHILD WILL BE ABLE TO CORRECTLY PROVIDE AND DISTINGUISH BETWEEN USES OF NOUNS, PRONOUNS, ADJECTIVES, ADVERBS, VERBS, AND BETWEEN SENTENCES AND NON-SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09423 PARTS OF SPEECH (RELATIONSHIPS): THE CHILD WILL BE ABLE TO EMPLOY PARTS OF SPEECH WHICH DESCRIBE RELATIONSHIPS OF TIME, SPACE, SIZE, AND SHAPE. SUCH PARTS OF SPEECH INCLUDE:

1. COMPARATIVE AND SUPERLATIVE ADVERBS AND ADJECTIVES
2. PRESENT AND PAST TENSES OF VERBS
3. ACTIVE AND PASSIVE VOICE
4. PREPOSITIONS
5. ADVERBS OF TIME
6. CONJUNCTIONS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90481 THE STUDENT WILL RECOGNIZE AND SELECT PROPER NOUNS FROM A LIST OF 70 WORDS AND FROM A NUMBER OF SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90483 THE STUDENT WILL BE ABLE TO LABEL NOUN OF DIRECT ADDRESS AND PUNCTUATE A LIST OF 20 SENTENCES

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07514	ENGLISH FOR MEANING GRADE 7	1	1.00	12- 2 TO 12- 2	12- 2 TO 12- 2

OBJECTIVE: 90745 THE STUDENT WILL SELECT SUBJECT, VERB AND DIRECT OBJECT FROM SENTENCES

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03979	OUR LANGUAGE TODAY 7	1	2.00	13- 1 TO 13- 1	10- 0 TO 10- 0
07516	THE NEW BUILDING BETTER ENGLISH 7, HANDBOOK	1	2.00	13- 1 TO 13- 1	10- 0 TO 10- 0
	METHODS				
52848	SELECTING SUBJECT, VERB AND DIRECT OBJECT	1	2.00	13- 1 TO 13- 1	10- 0 TO 10- 0

E1-14 (CONTINUED)

OBJECTIVE: 90751 THE STUDENT WILL RECOGNIZE AND SELECT ALL PROPER NOUNS FROM A LIST OF 20 WORDS AND SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-16 GRAM./PREDICATE

SOURCE: CRTR

OBJECTIVE: 15326 GIVEN SENTENCES WITH NONSENSE WORDS, THE PUPIL IDENTIFIES SUBJECT AND PREDICATE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-17 GRAM./PRONOUN

SOURCE: CRTR

OBJECTIVE: 15300 GIVEN SIMPLE SENTENCES WITH NOUN PHRASE STRUCTURES THAT ARE PROPER NOUNS AND COMMON NOUNS AND LISTS OF ALTERNATIVE PERSONAL PRONOUNS WHICH INCLUDE NOMINATIVE AND OBJECTIVE PRONOUNS, THE PUPIL IDENTIFIES AND DISTINGUISHES BETWEEN THE KINDS OF PRONOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

E1-17 (CONTINUED)

OBJECTIVE: 15309 GIVEN SENTENCES CONTAINING ONE INDEFINITE PRONOUN AND LISTS OF ALTERNATIVE WORDS, THE PUPIL IDENTIFIES INDEFINITE PRONOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15310 GIVEN SENTENCES IN WHICH POSSESSIVE OR PERSONAL PRONOUNS ARE MISSING AND LISTS OF ALTERNATIVE FORMS OF ONE PRONOUN, THE PUPIL CLASSIFIES THE TWO PRONOUN FORMS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15311 GIVEN SENTENCES IN WHICH POSSESSIVE PRONOUNS ARE MISSING, AND ALTERNATIVE FORMS OF PRONOUNS, THE PUPIL CORRECTLY IDENTIFIES THE POSSESSIVE PRONOUN WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15333 GIVEN A LIST OF SENTENCES, THE PUPIL DEMONSTRATES THE CORRECT USE FOR INDEFINITE PRONOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15334 GIVEN A LIST OF PRONOUNS. THE PUPIL CAN IDENTIFY THE INDEFINITE PRONOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15335 GIVEN A LIST OF SENTENCES, THE PUPIL IDENTIFIES THE INDEFINITE PRONOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15336 GIVEN INCOMPLETE SENTENCES, THE STUDENT DEMONSTRATES THE USE OF PERSONAL AND POSSESSIVE PRONOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15337 GIVEN INCOMPLETE SENTENCES, THE STUDENT WILL IDENTIFY THE CORRECT FORM OF THE POSSESSIVE PRONOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15338 GIVEN A LIST OF PRONOUNS, THE PUPIL WILL CORRECTLY IDENTIFY THE PERSONAL PRONOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15339 GIVEN A LIST OF PRONOUNS, THE PUPIL WILL CORRECTLY IDENTIFY THE POSSESSIVE PRONOUNS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

E1-17 (CONTINUED)

OBJECTIVE: 15340 GIVEN A LIST OF SENTENCES, THE PUPIL WILL USE THE CORRECT PERSONAL PRONOUN IN NOUN-SUBSTITUTION WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15341 GIVEN A LIST OF SENTENCES, THE PUPIL WILL USE THE CORRECT POSSESSIVE PRONOUN IN NOUN SUBSTITUTION WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15342 GIVEN A LIST OF SENTENCES, THE PUPIL WILL DEMONSTRATE THE RULES FOR SUBJECTIVE AND OBJECTIVE PRONOUNS BY USING THEM WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09416 GIVEN A COMMON OR PROPER NOUN, THE CHILD WILL BE ABLE TO IDENTIFY THE CORRECT PRONOUN TO REPLACE THE REFERENT NOUN.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09417 GIVEN SENTENCES USING NOUNS, THE CHILD CAN SELECT WHICH PRONOUNS ARE APPROPRIATE SUBSTITUTES FOR THOSE NOUNS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09418 GIVEN PRONOUNS IN REFERENCE TO CHARACTERS AND ELEMENTS IN A STORY, THE CHILD CAN TELL WHO OR WHAT EACH PRONOUN REPRESENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09419 GIVEN A QUESTION INVOLVING POSSESSION, THE CHILD WILL BE ABLE TO ANSWER IT USING THE CORRECT POSSESSIVE PRONOUN.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90703 THE STUDENT WILL BE ABLE TO IDENTIFY PRONOUNS AND REPLACE NOUNS WITH PRONOUNS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90712 THE STUDENT WILL WIRTE THE CORRECT PRONOUN FOR SENTENCES WITH SPACES PROVIDED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90753 THE STUDENT WILL SELECT CORRECT PRONOUN FROM SENTENCE AND IDENTIFY ITS USE IN THE SENTENCE AS SUBJECT OR PREDICATE NOUN

OBJECTIVE: 90753 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
METHODS					
52856	SELECTING AND IDENTIFYING PRONOUNS	1	1.00	12- 2 TO 12- 2	12- 2 TO 12- 2

CONTENT AREA: E1-18 GRAM./PUNCTUATION

SOURCE: CRTR

OBJECTIVE: 15304 GIVEN DIRECTIONS CONTAINING NAMES FOR COMMONLY USED PUNCTUATION MARKS AND LISTS OF ALTERNATIVE SIGNS FOR PUNCTUATION MARKS, THE PUPIL IDENTIFIES PUNCTUATION MARKS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15308 GIVEN UNPUNCTUATED AND UNCAPITALIZED SENTENCES, AND ALTERNATIVE WAYS OF PUNCTUATING AND CAPITALIZING, THE PUPIL USES RULES FOR PUNCTUATION AND CAPITALIZATION WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15317 GIVEN GROUPS OF WORDS, THE PUPIL DEMONSTRATES THE PUNCTUATION, CAPITALIZATION AND QUOTATION RULES FOR CONVERTING THE GROUPS INTO SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

E1-18 (CONTINUED)

OBJECTIVE: 15318 GIVEN EXAMPLES OF PUNCTUATION MARKS, THE PUPIL CAN IDENTIFY THE MARKS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15319 GIVEN UNPUNCTUATED SENTENCES, THE PUPIL CAN DEMONSTRATE PUNCTUATION RULES BY CORRECTLY PUNCTUATING THE SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15321 GIVEN SENTENCES WITH UNMARKED QUOTATIONS, THE PUPIL CAN DEMONSTRATE THE RULES FOR QUOTATION MARKS BY CORRECTING THE SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15322 GIVEN GROUPS OF SENTENCES, THE PUPIL WILL DEMONSTRATE THE TYPES OF RULES FOR COMMAS BY DETERMINING WHICH SENTENCES CORRECTLY USE MORE THAN ONE TYPE OF RULE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15323 GIVEN A LIST OF SENTENCES, THE PUPIL WILL DEMONSTRATE THE RULES FOR COMMAS AS PAUSES BY DETERMINING WHICH SENTENCES CORRECTLY USE COMMAS AS PAUSES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15324 GIVEN A LIST OF SENTENCES, THE PUPIL DEMONSTRATES THE RULES FOR COMMAS AS SPACERS IN LISTS BY DETERMINING WHICH SENTENCES CORRECTLY USE COMMAS AS LIST SPACERS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15325 GIVEN A LIST OF SENTENCES, THE PUPIL DEMONSTRATES THE RULES FOR COMMAS IN DATES AND PLACE NAMES BY DETERMINING WHICH SENTENCES CORRECTLY USE COMMAS IN SUCH A WAY WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 99005 THE STUDENT WILL BE ABLE TO WRITE SENTENCES EXPRESSING COMPLETE THOUGHTS, USING PERIODS AND QUESTION MARKS AND DISTINGUISH COMPLETE FROM INCOMPLETE SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUBURBAN UNIT

OBJECTIVE: 90396 THE STUDENT WILL BE ABLE TO WRITE QUOTATION MARKS APPROPRIATELY IN DECLARATIVE SENTENCES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
90387	QUOTATION MARKS - WITH STATEMENT WORKSHEET	1	2.00	6-10 TO 6-10	6- 9 TO 6- 9

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OBJECTIVE:  90397  THE STUDENT WILL BE ABLE TO USE QUOTATION MARKS APPROPRIATELY
                   IN INTERROGATIVE SENTENCES

RESOURCE                                        NUMBER    EFF    CHRONOLOGICAL      MENTAL
NUMBER                   TITLES                 OF USES  RATING       AGE             AGE
                                                   #     (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
90381  QUOTATION MARKS WITH QUESTIONS              1      2.00   6-10 TO  6-10   6- 9 TO  6- 9
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OBJECTIVE:  90398  THE STUDENT WILL BE ABLE TO WRITE QUOTATION MARKS APPROPRIATELY
                   IN DECLARATIVE AND INTERROGATIVE SENTENCES

RESOURCE                                        NUMBER    EFF    CHRONOLOGICAL      MENTAL
NUMBER                   TITLES                 OF USES  RATING       AGE             AGE
                                                         (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
90380  QUOTATION MARKS IN STATEMENT AND QUESTION    1    ***.**  6-10 TO  6-10   6- 9 TO  6- 9
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CONTENT AREA:  E1-21 GRAM./SENTENCE TYPES

SOURCE:  CRTR


OBJECTIVE:  15291  GIVEN ORAL PRESENTATION OF COMPLETE AND INCOMPLETE GROUPS OF
                   WORDS, THE PUPIL IDENTIFIES THOSE GROUPS OF WORDS WHICH ARE
                   STATEMENTS WITH 95% ACCURACY.

                              NO IMPLEMENTATION RECORD 1973-1974
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OBJECTIVE: 15292 GIVEN ORAL PRESENTATION OF UNPUNCTUATED SENTENCES SOME OF WHICH ARE QUESTIONS (INCLUDING YES OR NO QUESTIONS AND QUESTIONS USING QUESTION WORDS) AND OTHER STATEMENTS, THE PUPIL IDENTIFIES THOSE SENTENCES WHICH ARE QUESTIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15293 GIVEN ORAL PRESENTATION OF PUNCTUATED SENTENCES SOME OF WHICH CONTAIN NEGATIVES INCLUDING NOT, NO, NONE, NEVER OR THE NOT CONTRACTION, THE PUPIL CLASSIFIES NEGATIVE SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15294 GIVEN UNPUNCTUATED COMPLETE AND INCOMPLETE GROUPS OF WORDS, THE PUPIL IDENTIFIES THOSE GROUPS OF WORDS WHICH ARE STATEMENTS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15295 GIVEN UNPUNCTUATED SENTENCES SOME OF WHICH ARE QUESTIONS (INCLUDING YES OR NO QUESTIONS AND QUESTIONS USING QUESTION WORDS) AND OTHER STATEMENTS, THE PUPIL IDENTIFIES THE SENTENCES WHICH ARE QUESTIONS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15296 GIVEN PUNCTUATED SENTENCES SOME OF WHICH CONTAIN NEGATIVES INCLUDING NOT, NO, NONE, NEVER, OR THE NOT CONTRACTION, THE PUPIL CLASSIFIES NEGATIVE SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15303 GIVEN UNPUNCTUATED GROUPS OF WORDS SOME OF WHICH ARE STATEMENTS WITH TRANSITIVE, INTRANSITIVE, OR TO BE VERBS, AND SOME QUESTIONS WHICH INCLUDE YES-NO QUESTIONS AND QUESTIONS USING QUESTION WORDS AND LISTS OF ALTERNATIVES, THE PUPIL USES RULES TO DETERMINE WHETHER EACH GROUP OF WORDS IS A STATEMENT OR QUESTION WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15305 GIVEN UNPUNCTUATED SENTENCES WHICH INCLUDE REPRESENTATIVE SIMPLE STATEMENTS, QUESTION SENTENCES AND NEGATIVES, THE PUPIL CLASSIFIES THESE THREE SENTENCE FORMS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09438 GIVEN DECLARATIVE AND IMPERATIVE SENTENCES, THE CHILD WILL BE ABLE TO IDENTIFY THE IMPERATIVE SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09439 GIVEN INTERROGATIVE AND IMPERATIVE SENTENCES THE CHILD WILL BE ABLE TO IDENTIFY WHICH ARE INTERROGATIVE.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
90242	QUESTIONS AND STATEMENTS	1	2.00	8- 0 TO 8- 0	6- 2 TO 6- 2

OBJECTIVE: 09440 GIVEN INSTRUCTIONS THAT INVOLVE THE USE OF QUESTIONS AND STATEMENTS, THE CHILD CAN FOLLOW INSTRUCTIONS USING INTERROGATIVE AND DECLARATIVE SENTENCES APPROPRIATELY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: TALK

OBJECTIVE: 14005 WHEN GIVEN APPROPRIATE STIMULUS QUESTION (E.G. "WHAT DOES ELLEN DO"), STUDENT VERBALIZES SIMPLE, INTRANSITIVE-VERY DECLARATIVE SENTENCE (E.G. "ELLEN EATS").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14006 WHEN GIVEN APPROPRIATE STIMULUS QUESTION (E.G. "WHERE DOES JOHN SIT"), STUDENT VERBALIZES INTRANSITIVE-VERB DECLARATIVE SENTENCE WITH AN ADVERBIAL OF LOCATION (E.G. "JOHN SITS IN THE CAR").

NO IMPLEMENTATION RECORD 1973-1974

E1-21 (CONTINUED)

OBJECTIVE: 14007 WHEN GIVEN APPROPRIATE STIMULUS QUESTION (E.G. "CAN JOHN BRAY"), STUDENT VERBALIZES INTRANSITIVE-VERB DECLARATIVE SENTENCE WITH A NEGATIVE (E.G. "NO, JOHN CAN'T BRAY").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14008 WHEN GIVEN APPROPRIATE STIMULUS QUESTION (E.G. "WHAT DOES JOHN EAT"), STUDENT VERBALIZES TRANSITIVE-VERB DECLARATIVE SENTENCE (E.G. "JOHN EATS AN APPLE").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14009 WHEN SHOWN FAMILIAR OBJECT IN A PARTICULAR LOCATION AND ASKED AN APPROPRIATE STIMULUS QUESTION (E.G. "WHERE DID JOHN PUT THE PAPER"), STUDENT VERBALIZES TRANSITIVE-VERB DECLARATIVE SENTENCE WITH AN ADVERBIAL OF LOCATION (E.G. "JOHN PUT THE PAPER ON THE FLOOR").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14010 WHEN GIVEN APPROPRIATE STIMULUS QUESTION (E.G. "CAN JOHN PLAY THE GUITAR"), STUDENT VERBALIZES TRANSITIVE-VERB SENTENCE IN THE NEGATIVE (E.G. "NO, JOHN CAN'T PLAY THE GUITAR").

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90045 GIVEN PICTURES OF COMMON OBJECTS, STUDENT MATCHES THEM TO STIMULUS PICTURES, THEN USES THE OBJECTS' NAMES IN FULL, SIMPLE SENTENCES REPRESENTING AN ACTOR-ACTION RELATIONSHIP (E.G. "I HAVE A CHAIR").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90046 GIVEN TWO-PIECE PICTURES OF COMMON OBJECTS TO ASSEMBLE, STUDENT WILL NAME THE OBJECTS, THEN DESCRIBE THEM BY COLOR IN A SIMPLE PREDICATIVE SENTENCE (E.G. "IT IS BLUE")

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04702	LEARNING TO DEVELOP LANGUAGE SKILLS, UNIT 2	1	1.00	8- 3 TO 8- 3	**************
06979	LANGUAGE DEVELOPMENT PROGRAM	1	1.00	8- 3 TO 8- 3	**************

OBJECTIVE: 90047 GIVEN SCHEMATIC PICTURES OF CHILDREN PORTRAYING FEELINGS OR BODILY STATES, STUDENT WILL NAME THESE IN SIMPLE, PREDICATIVE SENTENCES (E.G. "SHE'S HAPPY, HUNGRY," ETC.).

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-22 GRAM./SENTENCE STRUCTURE

SOURCE: CRTR

OBJECTIVE: 15314 GIVEN GROUPS OF WORDS, THE PUPIL CAN DEMONSTRATE THE RULES FOR SENTENCES BY DETERMINING THE STRUCTURE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15315 GIVEN A LIST OF COMPLEX SENTENCES, THE PUPIL CAN DEMONSTRATE WHICH FORM PHRASES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15316 GIVEN A LIST OF PHRASES, THE PUPIL CAN DEMONSTRATE HOW SENTENCES ARE FORMED WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15317 GIVEN GROUPS OF WORDS, THE PUPIL DEMONSTRATES THE PUNCTUATION, CAPITALIZATION AND QUOTATION RULES FOR CONVERTING THE GROUPS INTO SENTENCES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09422 THE CHILD WILL BE ABLE TO RESPOND TO QUESTIONS PREFACED BY HOW AND WHY USING COMPLETE SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09437 SENTENCE STRUCTURE: GIVEN OPPORTUNITIES TO SPEAK, THE CHILD CAN CORRECTLY USE DECLARATIVE, IMPERATIVE, AND INTERROGATIVE SENTENCES WHICH ARE LOGICALLY ORDERED AND WHICH REPRESENT COMPLETE THOUGHT UNITS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09441 GIVEN GROUPS OF WORDS, THE CHILD CAN DIFFERENTIATE BETWEEN COMPLETE SENTENCES AND FRAGMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09442 GIVEN QUESTIONS OR PICTURES AS STIMULI, THE CHILD CAN RESPOND IN COMPLETE THOUGHT UNITS.
NOTE: "COMPLETE THOUGHT UNITS" ARE HEREIN MEANT TO BE THOSE WORDS, PHRASES, OR SENTENCES THAT ADEQUATELY COMMUNICATE THE INFORMATION DEMANDED.

OBJECTIVE: 09442 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04303	SCOTT, FORESMAN READING SYSTEMS, PUPILS' BOO	1	***.**	6- 4 TO 6- 4	**************

OBJECTIVE: 09443 GIVEN QUESTIONS CONCERNING A PICTURE, THE CHILD CAN ANSWER IN COMPLETE THOUGHT UNITS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09444 GIVEN A SET OF SENTENCES, SOME OF WHICH CONSIST OF WORDS WHICH ARE NOT LOGICALLY ORDERED, THE CHILD CAN IDENTIFY THE INCORRECTLY ORDERED SENTENCES AND CAN CORRECT THEM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09445 GIVEN A SET OF PICTURES THAT TELL A STORY, THE CHILD CAN VERBALIZE WHAT THE PICTURES TELL, USING LOGICALLY ORDERED COMPLETE SENTENCES IN DESCRIBING THE STORY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03385	PEABODY LANGUAGE DEVELOPMENT KIT, LEVEL 1	2	2.00	9- 2 TO 9- 2	**************
04350	SEQUENCE CARDS	1	2.00	9- 2 TO 9- 2	**************
07624	THE ABC ON OUR WAY	1	2.00	9- 2 TO 9- 2	**************

OBJECTIVE: 09445 (CONTINUED)

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07625  ACTIONS (ORAL LANGUAGE PICTURES)               1      2.00  9- 2 TO  9- 2  **************
07626  STORY STIMULUS CARDS I                         1      2.00  9- 2 TO  9- 2  **************
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OBJECTIVE: 09446 GIVEN AN OPPORTUNITY TO COMPLETE A STORY, THE CHILD USES COMPLETE SENTENCES WHICH ARE WITHIN THE CONTEXT OF THE STORY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90230 THE STUDENT WILL BE ABLE TO UNDERLINE AND LABEL THE N-V, N-V-N, AND N-LV-N PATTERNS IN SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90233 THE STUDENT WILL BE ABLE TO IDENTIFY AND EXTRACT WORDS FROM A LIST WHICH MAKE A N-V SENTENCE PATTERN.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 99011 THE STUDENT WILL BE ABLE TO COMBINE A GROUP OF SENTENCE FRAGMENTS INTO 20 GRAMMATICALLY CORRECT SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90083 GIVEN A PRE-READING LEVEL SCHEMATIC PICTURE REPRESENTING SEVERAL OBJECTS/ANIMALS, ETC., AND GIVEN AN ORAL STIMULUS QUESTION (E.G. 'WHAT DOES THE PICTURE SHOW'), STUDENT VERBALIZES AN EXPANDED SIMPLE SENTENCE USING THE CONJUNCTION 'AND' (E.G. 'THE PICTURE SHOWS HORSES AND AN APPLE AND A BABY').

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90243 WHEN SHOWN A PICTURE PORTRAYING A TRANSITIVE-VERB ACTION, STUDENT EXPRESSES SUBJECT, VERB, AND OBJECT IN AT LEAST A PIVOT PHRASE (E.G. 'GIRL BUILD TOWER').

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUBURBAN UNIT

OBJECTIVE: 90315 GIVEN A FAMILIAR WORD GROUP, BE ABLE TO ADD TO THIS WORD GROUP TO MAKE A COMPLETE SENTENCE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: WESTERN UNIT

OBJECTIVE: 90597 GIVEN DASHES AS STRUCTURAL CUES THE LEARNER WILL WRITE 4-5 WORD SENTENCES USING THE PENTENCE PATTERN (E.G. N HAS NOUN PHRASE)

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-23 GRAM./SUBJECT

SOURCE: CRTR

OBJECTIVE: 15326 GIVEN SENTENCES WITH NONSENSE WORDS, THE PUPIL IDENTIFIES SUBJECT AND PREDICATE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90231 THE STUDENT WILL BE ABLE TO SELECT THE SUBJECT, VERB AND COMPLEMENT FROM 20 SIMPLE SENTENCES

CTIVE:

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03978	DISCOVERING OUR WORLD'S HISTORY	1	3.00	12- 2 TO 12- 2	12- 2 TO 12- 2
03979	OUR LANGUAGE TODAY 7	1	2.00	12- 2 TO 12- 2	12- 2 TO 12- 2
07547	THE STORY OF NATIONS	1	3.00	12- 2 TO 12- 2	12- 2 TO 12- 2

OBJECTIVE: 90235 THE STUDENT WILL BE ABLE TO UNDERLINE THE SUBJECTS AND VERBS IN 25 SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-24 GRAM./SUBJECT, VERB AGREEMENT

SOURCE: CRTR

OBJECTIVE: 15146 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES RULES TO SELECT THE CORRECT SINGULAR FORM FOR VERBS IN THE PRESENT TENSE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15147 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES RULES TO SELECT THE CORRECT SINGULAR OR PLURAL FORM FOR VERBS IN THE PRESENT TENSE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15297 GIVEN SIMPLE SENTENCES WITH SUBJECTS THAT INCLUDE NOUN PHRASE STRUCTURES THAT ARE PROPER NOUN, PRONOUN AND COMMON NOUN AND LISTS OF ALTERNATIVE WORDS OR GROUPS OF WORDS FROM EACH SENTENCE, THE PUPIL CLASSIFIES THE SUBJECT-PREDICATE FUNCTION WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15332 GIVEN A LIST OF INCOMPLETE SENTENCES, THE PUPIL IDENTIFIES THE VERB FORM WHICH AGREES WITH THE SUBJECT WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

E1-24 (CONTINUED)

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90233 THE STUDENT WILL BE ABLE TO IDENTIFY AND EXTRACT WORDS FROM A LIST WHICH MAKE A N-V SENTENCE PATTERN.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-26 GRAM./SYNTAX

SOURCE: IOX

OBJECTIVE: 09433 GIVEN AN ORAL DESCRIPTION WHICH EMPLOYS EITHER ACTIVE OR PASSIVE VOICE, AND A PAIR OF PICTURES, THE CHILD CAN SELECT THE PICTURE THAT MATCHES THE DESCRIPTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09434 GIVEN DIRECTIONS THAT USE ACTIVE AND PASSIVE-VOICE VERBS, THE CHILD WILL BE ABLE TO ACT OUT (PANTOMIME) THE DIRECTIONS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E1-27 GRAM./VERB

SOURCE: CRTR

OBJECTIVE: 15144 GIVEN LISTS OF SPECIFIED VERBS, THE PUPIL CLASSIFIES REGULAR AND IRREGULAR VERBS, PAST TENSE, WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15145 GIVEN INCOMPLETE PRESENT TENSE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES VERB ENDING RULES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15146 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES RULES TO SELECT THE CORRECT SINGULAR FORM FOR VERBS IN THE PRESENT TENSE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15147 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES RULES TO SELECT THE CORRECT SINGULAR OR PLURAL FORM FOR VERBS IN THE PRESENT TENSE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

E1-27 (CONTINUED)

OBJECTIVE: 15148 GIVEN INCOMPLETE PAST TENSE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES RULES TO SELECT PAST TENSE FORMS OF VERBS WITH REGULAR ENDINGS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15149 GIVEN INCOMPLETE PAST TENSE SENTENCES AND LISTS OF ALTERNATIVE WAYS TO SPELL ONE VERB FORM, THE PUPIL USES RULES TO SPELL THE PAST TENSE FORM OF REGULAR VERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15150 GIVEN SPECIFIED IRREGULAR VERBS IN THE PRESENT TENSE FORM AND LISTS OF WORDS CONTAINING THEIR PAST TENSE FORM, THE PUPIL CLASSIFIES IRREGULAR VERBS, PAST TENSE, WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15151 GIVEN INCOMPLETE HAVE + PARTICIPLE SENTENCES AND LISTS OF ALTERNATIVE FORMS FOR EACH VERB, THE PUPIL USES RULES TO SELECT THE PARTICIPLE FORM OF EACH VERB WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15152 GIVEN LISTS OF WORDS CONTAINING SOME VERBS TO WHICH THE SUFFIX EN HAS BEEN ADDED, THE PUPIL CLASSIFIES THE PARTICIPIAL VERB FORMS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

E1-27 (CONTINUED)

OBJECTIVE: 15171 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES RULES TO SELECT THE CORRECT FORM FOR VERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15172 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES RULES TO SELECT THE CORRECT VERB ENDING WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15173 GIVEN INCOMPLETE SENTENCES IN THE PAST TENSE AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES RULES TO SELECT PAST TENSE FORMS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15174 GIVEN INCOMPLETE SENTENCES IN THE PAST TENSE AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES RULES TO SELECT THE CORRECT VERB FORM WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15175 GIVEN INCOMPLETE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, (PAST TENSE AND PAST PROGRESSIVE TENSE) THE PUPIL USES RULES TO SELECT THE CORRECT VERB FORM WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

E1-27 (CONTINUED)

OBJECTIVE: 15176 GIVEN INCOMPLETE PAST PARTICIPLE SENTENCES AND ALTERNATIVE ANSWERS, THE PUPIL USES RULES TO SELECT THE CORRECT PAST PARTICIPLE FORM OF THE VERB WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15299 GIVEN SIMPLE SENTENCES SOME OF WHICH ARE STATEMENTS WITH TRANSITIVE VERB, INTRANSITIVE VERB, OR LINKING VERBS INCLUDING TO BE, AND LISTS OF ALTERNATIVE WORDS OR GROUPS OF WORDS FROM EACH SENTENCE, THE PUPIL IDENTIFIES THE VERB WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15306 GIVEN SENTENCES WITH SUBJECTS THAT INCLUDE NOUN PHRASE STRUCTURES THAT ARE PROPER NOUN, PRONOUN, AND COMMON NOUN, AND PREDICATES INCLUDING TRANSITIVE VERB, INTRANSITIVE VERB, OR LENDING VERBS, AND LISTS OF ALTERNATIVE FUNCTIONS: THE PUPIL USES RULES TO DETERMINE WHICH ARE NOUNS AND WHICH ARE VERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15328 GIVEN A LIST OF SENTENCES WITH MORE THAN ONE VERB, THE PUPIL IDENTIFIES THE VERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

E1-27 (CONTINUED)

OBJECTIVE: 15329 GIVEN SENTENCES CONTAINING NONSENSE WORDS, THE STUDENT DEMONSTRATES, USING NOUNS AND VERBS, THE RULES FOR THEIR USE WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15331 GIVEN A LIST OF SENTENCES, THE STUDENT IDENTIFIES THE VERBS AND THEIR ADVERBS WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: TEX

OBJECTIVE: 09435 GIVEN A PICTURE SHOWING ACTION AND A STATEMENT IN WHICH THE VERB TENSE IS EITHER PAST, PRESENT, OR FUTURE, THE STUDENT WILL RESPOND TO A QUESTION ABOUT THE PICTURE USING THE APPROPRIATE VERB TENSE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09436 GIVEN A SET OF PICTURES AND AN ORAL SENTENCE IN WHICH THE PRESENT OR PAST VERB TENSE IS USED, THE CHILD WILL BE ABLE TO IDENTIFY THE PICTURE CORRESPONDING TO THE TENSE IN THE STATEMENT.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90235 THE STUDENT WILL BE ABLE TO UNDERLINE THE SUBJECTS AND VERBS IN 25 SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90754 THE STUDENT WILL IDENTIFY VERBS AND NOUNS FROM A LIST OF SENTENCES

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52857	IDENTIFYING VERBS AND NOUNS IN SENTENCES	1	2.00	13- 1 TO 13- 1	10- 0 TO 10- 0

SOURCE: RURAL UNIT

OBJECTIVE: 90038 GIVEN A SET OF PRE-READING LEVEL SCHEMATIC PICTURES WHICH REPRESENT ACTION, STUDENT NAMES AT LEAST SIX OF EIGHT ACTIONS DEPICTED WITHIN 90 SECONDS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E2-00 HANDWRITING

SOURCE: CRTR

OBJECTIVE: 15010 PUPIL IS ABLE TO HOLD A PENCIL CORRECTLY BETWEEN HIS THUMB, INDEX FINGER AND MIDDLE FINGER.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90659 WHEN USING BASIC HANDWRITING FORMS (CIRCLES, OVALS, TRIANGLES, SQUARES, RECTANGLES, STRAIGHT LINES, CURVED LINES) THE CHILD WILL STAY ON THE FORM LINE.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E2-01 HANDWRITING/UPPER CASE

SOURCE: CRTR

OBJECTIVE: 15040 GIVEN AN ORALLY SPECIFIED LETTER, THE PUPIL IS ABLE TO MARK THE APPROPRIATE PAIR OF UPPER AND LOWER CASE LETTERS ON THE PAPER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15041 GIVEN AN ORALLY SPECIFIED LETTER, THE PUPIL IS ABLE TO MARK THE APPROPRIATE UPPER CASE LETTER ON HIS PAPER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15043 GIVEN AN ORALLY SPECIFIED LETTER, THE PUPIL IS ABLE TO WRITE THE APPROPRIATE UPPER CASE LETTER. TO PASS, THE PUPIL MUST FORM THE LETTERS CORRECTLY, MOVING FROM TOP TO BOTTOM AND LEFT TO RIGHT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06916	TRAC-A-BIT CURSIVE	1	2.00	12-11 TO 12-11	11-11 TO 11-11

SOURCE: IOX

OBJECTIVE: 09042 THE STUDENT WILL BE ABLE TO RECOGNIZE UPPER CASE LETTERS BY NAMING OR PRINTING THEM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09043 GIVEN THREE IDENTICAL UPPER CASE LETTERS AND ONE CLEARLY DIFFERENT, THE STUDENT WILL IDENTIFY THE DIFFERENT LETTER BY PRINTING IT IN THE APPROPRIATE SPACE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09046 GIVEN THE NAME OF A LETTER ORALLY, THE STUDENT WILL BE ABLE TO PRINT IT IN THE UPPER CASE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09047 THE STUDENT WILL BE ABLE TO RECOGNIZE UPPER AND LOWER CASE LETTERS BY NAMING OR PRINTING THEM.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03207	MAGNETIC CAPITAL LETTERS	1	2.00	7- 7 TO 7- 7	**************
03211	ALPHABET PICTURE FLASH CARDS	2	2.00	5-11 TO 5-11	5- 2 TO 5- 2
03443	SCRABBLE FOR JUNIORS	1	2.00	7- 7 TO 7- 7	**************
04353	ALPHABET CARDS	1	1.00	7- 7 TO 7- 7	**************
07026	ALPHABET BOOK (READINESS)	2	2.00	5-11 TO 5-11	5- 2 TO 5- 2
90284	FLASH CARDS	3	2.00	6-10 TO 7-10	5- 6 TO 7- 6
90497	RAISED SANDPAPER ALPHABET CARDS	1	2.00	5-11 TO 5-11	5- 2 TO 5- 2
	TEST/TASK				
00057	LETTER NAMING TEST	1	1.00	7- 7 TO 7- 7	**************

OBJECTIVE: 09048 GIVEN THREE IDENTICAL UPPER OR LOWER CASE LETTERS AND ONE CLEARLY DIFFERENT, THE STUDENT WILL IDENTIFY THE DIFFERENT LETTER BY PRINTING IT IN THE APPROPRIATE SPACE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09059 GIVEN THE NAME OF A LETTER ORALLY, THE STUDENT WILL BE ABLE TO PRINT IT IN UPPER AND/OR LOWER CASE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90322 STUDENT WILL PRINT THE CAPITAL LETTERS A-F, ON PRIMARY PAPER WRITTEN 2 SPACES WHEN PRESENTED THE INDIVIDUAL LETTER ON FLASHCARDS BY TEACHER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03178	TRACING PAPER DESIGNS	2	1.00	6- 7 TO 6- 7	5- 4 TO 5- 4
03179	TRACING PAPER	1	1.00	6- 7 TO 6- 7	5- 4 TO 5- 4
04686	MOTIVATORS FOR MANUSCRIPT CAPITAL LETTERS	1	1.00	6- 7 TO 6- 7	5- 4 TO 5- 4
04687	MOTIVATORS FOR MANUSCRIPT LOWER CASE LETTERS	1	1.00	6- 7 TO 6- 7	5- 4 TO 5- 4

OBJECTIVE: 90469 WHEN VISUALLY PRESENTED WITH THE CAPITAL AND LOWER CASE LETTERS J-Z, THE STUDENT SHALL DUPLICATE THESE LETTERS WITH A PENCIL ON ANOTHER PIECE OF PAPER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90551 STUDENT WILL WRITE THE UPPER AND LOWER CASE LETTERS A TO J

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04686	MOTIVATORS FOR MANUSCRIPT CAPITAL LETTERS	1	1.00	8-10 TO 8-10	**************
04687	MOTIVATORS FOR MANUSCRIPT LOWER CASE LETTERS	1	1.00	8-10 TO 8-10	**************

CONTENT AREA: E2-02 CURSIVE HANDWRITING

SOURCE: IOX

OBJECTIVE: 09051 THE STUDENT WILL BE ABLE TO IDENTIFY ANY UPPER OR LOWER CASE SCRIPT LETTER BY NAMING OR PRINTING IT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09055 GIVEN AN UPPER OR LOWER CASE PRINTED LETTER, THE STUDENT WILL BE ABLE TO WRITE ITS CURSIVE EQUIVALENT; GIVEN AN UPPER OR LOWER CASE CURSIVE LETTER, THE STUDENT WILL BE ABLE TO WRITE ITS PRINTED EQUIVALENT.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90424 STUDENT WILL BE ABLE TO WRITE IN CURSIVE THE CAPITAL LETTERS B AND C TOUCHING BOTH THE TOP AND BOTTOM LINES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90473 WHEN VISUALLY PRESENTED WITH UPPER AND LOWER CASE LETTERS F TO J, STUDENT WILL DUPLICATE THESE LETTERS WITH A PENCIL IN CURSIVE STYLE

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07714	ALPHABET PRACTICE CARDS CAPITALS - CURSIVE	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8
07715	ALPHABET PRACTICE CARDS LOWER CASE - CURSIVE	1	***.**	7- 1 TO 7- 1	7- 8 TO 7- 8

OBJECTIVE: 90588 WHEN VISUALLY PRESENTED WITH THE CAPITAL AND LOWER CASE CURSIVE LETTERS A-E, THE STUDENT WILL DUPLICATE THESE LETTERS WITH A PENCIL ON ANOTHER PIECE OF PAPER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07027	MOVING UP IN NUMBERS - BLUE UNIT - NUMBER SE	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8
07525	COUNTING RODS	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8
07568	COUNTDOWN - TAPE 1, SIDE 1, AND FOLDER (LESS	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8
07714	ALPHABET PRACTICE CARDS CAPITALS - CURSIVE	1	***.**	7- 1 TO 7- 1	7- 8 TO 7- 8
07715	ALPHABET PRACTICE CARDS LOWER CASE - CURSIVE	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8

OBJECTIVE: 90659 WHEN USING BASIC HANDWRITING FORMS (CIRCLES, OVALS, TRIANGLES, SQUARES, RECTANGLES, STRAIGHT LINES, CURVED LINES) THE CHILD WILL STAY ON THE FORM LINE.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	9- 6 TO 9- 6	**************

OBJECTIVE: 90743 USING CURSIVE THE STUDENT WILL WRITE NAME AND TWO DIFFERENT UPPER & LOWER CASE LETTERS OF THE ALPHABET

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52846	WRITING NAME IN CURSIVE	1	***.**	8-10 TO 8-10	**************
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	1	4.00	8-10 TO 8-10	**************

SOURCE: WESTERN UNIT

OBJECTIVE: 90142 STUDENT WILL WRITE CURSIVELY FROM MEMORY LOWER CASE LETTERS: F,H,J,L,Q,V,W,N,K,T,M,O.

OBJECTIVE: 90142 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06916	TRAC-A-BIT CURSIVE	1	1.00	11- 0 TO 11- 0	**************
	METHODS				
52271	CURSIVE HANDWRITING ACTIVITY	1	***.**	11- 0 TO 11- 0	**************

OBJECTIVE: 90143 STUDENT WILL TRANSPOSE MANUSCRIPT INTO LOWER CASE CURSIVE WRITING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52272	CURSIVE HANDWRITING - COMBINING LETTERS	1	***.**	11- 0 TO 11- 0	**************

OBJECTIVE: 90145 STUDENT WILL WRITE CURSIVELY "D", "R", "C", "F", "B", "G" AND DISCRIMINATE THEIR SOUNDS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90690 STUDENT WILL LEARN TO SATISFACTORILY REPRODUCE THE CURSIVE ALPHABET AND FORM WORDS.

OBJECTIVE: 90690 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06916	TRAC-A-BIT CURSIVE	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1
07661	LOOPS TO LEARN BY - READING & WRITING SERIES	1	3.00	7- 9 TO 7- 9	7- 3 TO 7- 3

OBJECTIVE: 90697 THE STUDENT WILL CURSIVELY WRITE UPPER CASE LETTERS A,B,C,D,E,F,G

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06916	TRAC-A-BIT CURSIVE	1	2.00	13- 8 TO 13- 8	11- 9 TO 11- 9

OBJECTIVE: 90699 THE STUDENT WILL CURSIVELY WRITE 3 LETTER WORDS WITH MEDIAL SHORT VOWELS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03934	SOUND FOUNDATIONS PROGRAM	1	2.00	13- 8 TO 13- 8	11- 9 TO 11- 9
06916	TRAC-A-BIT CURSIVE	1	2.00	13- 8 TO 13- 8	11- 9 TO 11- 9

OBJECTIVE: 90702 THE STUDENT WILL WRITE THE CAPITAL AND SMALL LETTERS OF THE ALPHABET CURSIVELY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06916	TRAC-A-BIT CURSIVE	1	2.00	12-11 TO 12-11	11-11 TO 11-11

CONTENT AREA: E2-05 HANDWRITING/LOWER CASE

SOURCE: CRTR

OBJECTIVE: 15040 GIVEN AN ORALLY SPECIFIED LETTER, THE PUPIL IS ABLE TO MARK THE APPROPRIATE PAIR OF UPPER AND LOWER CASE LETTERS ON THE PAPER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15042 GIVEN AN ORALLY SPECIFIED LETTER, THE PUPIL IS ABLE TO MARK THE APPROPRIATE LOWER CASE LETTER ON HIS PAPER.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IDAHO TMR SKILLS ASSESSMENT

E2-05 (CONTINUED)

OBJECTIVE: 83048 THE STUDENT WILL PRINT HIS NAME EVENLY SPACING LETTERS AND MAKING LOWER CASE LETTERS SIMILAR IN SIZE

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09047 THE STUDENT WILL BE ABLE TO RECOGNIZE UPPER AND LOWER CASE LETTERS BY NAMING OR PRINTING THEM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09048 GIVEN THREE IDENTICAL UPPER OR LOWER CASE LETTERS AND ONE CLEARLY DIFFERENT, THE STUDENT WILL IDENTIFY THE DIFFERENT LETTER BY PRINTING IT IN THE APPROPRIATE SPACE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09059 GIVEN THE NAME OF A LETTER ORALLY, THE STUDENT WILL BE ABLE TO PRINT IT IN UPPER AND/OR LOWER CASE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - CLARION STATE COLLEGE

OBJECTIVE: 85012 THE STUDENT WILL WRITE HER NAME IN MANUSCRIPT USING 1 SPACE FOR CAPITAL LETTERS, 1/2 SPACE FOR LOWER CASE LETTERS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90215 THE STUDENT WILL PRINT OR POINT TO THE CORRESPONDING LOWER CASE LETTER FOR THE CONSONANTS B, S, M, F, P, T AS THEY ARE NAMED OR SOUNDED BY THE TEACHER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90469 WHEN VISUALLY PRESENTED WITH THE CAPITAL AND LOWER CASE LETTERS J-Z, THE STUDENT SHALL DUPLICATE THESE LETTERS WITH A PENCIL ON ANOTHER PIECE OF PAPER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07714	ALPHABET PRACTICE CARDS CAPITALS - CURSIVE	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8
07715	ALPHABET PRACTICE CARDS LOWER CASE - CURSIVE	1	***.**	7- 1 TO 7- 1	7- 8 TO 7- 8

OBJECTIVE: 90551 STUDENT WILL WRITE THE UPPER AND LOWER CASE LETTERS A TO J

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E2-06 MANUSCRIPT HANDWRITING

SOURCE: COMPET

OBJECTIVE: 06269 POSSESSES BASIC WRITING SKILLS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07010	LOOK AND WRITE, AN EYE HAND COORDINATION WOR	2	1.00	7- 0 TO 7- 0	6- 0 TO 6- 0
	TEST/TASK				
00051	DIRECTIONAL CONFUSION	1	1.00	7- 0 TO 7- 0	6- 0 TO 6- 0
00053	DIRECTIONAL CONFUSION	1	1.00	7- 0 TO 7- 0	6- 0 TO 6- 0

OBJECTIVE: 06270 USES CRAYON MEANINGFULLY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06271 USES PENCIL MEANINGFULLY

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	1	1.00	5-11 TO 5-11	**************

OBJECTIVE: 06272 WRITES OWN NAME

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03136	FROSTIG BEGINNING PICTURES AND PATTERNS (REV	2	1.00	4- 6 TO 5-10	4-10*TO* 4-10
03519	DUBNOFF SCHOOL PROGRAM, LEVEL 1	2	1.00	4- 6 TO 5-10	4-10*TO* 4-10
04727	FAIRBANKS-ROBINSON PROGRAM, LEVEL 1	2	1.00	4- 6 TO 5-10	4-10*TO* 4-10
	METHODS				
52260	HANDWRITING FOLLOWING DOTTED LINES	1	***.**	3- 9 TO 3- 9	**************
53248	WRITING NAME THROUGH TRACING EXERCISES	2	***.**	4- 6 TO 5-10	4-10*TO* 4-10
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	8- 5 TO 8- 5	**************

OBJECTIVE: 06273 WRITES SIMPLE WORDS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00115	DOLCH BASIC SIGHT VOCABULARY CARDS	1	1.00	8- 1 TO 8- 1	**************

OBJECTIVE: 06274 WRITES SIMPLE PHRASE OR SHORT SENTENCE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06275 ACHIEVES BASIC COMMUNICATION THROUGH WRITING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00207	WRITE AND SEE - HANDWRITING BOOK 3 (CURSIVE)	2	1.00	8- 9 TO 9- 9	6- 2 TO 9- 2
03138	FROSTIG ADVANCED PICTURES AND PATTERNS (REVI	2	1.00	8- 9 TO 9- 9	6- 2 TO 9- 2
03521	DUBNOFF SCHOOL PROGRAM, LEVEL 3	2	1.00	8- 9 TO 9- 9	6- 2 TO 9- 2
06776	I CAN DO CURSIVE HANDWRITING - BOOK 2	1	2.00	9- 7 TO 9- 7	6- 7 TO 6- 7

OBJECTIVE: 06276 WRITES SIMPLE FRIENDLY LETTER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06277 WRITES SHORT SEMI-FORMAL LETTER

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IDAHO TMR SKILLS ASSESSMENT

OBJECTIVE: 83048 THE STUDENT WILL PRINT HIS NAME EVENLY SPACING LETTERS AND MAKING LOWER CASE LETTERS SIMILAR IN SIZE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 83049 THE STUDENT WILL PRINT HIS HOME ADDRESS PROPERLY SPACING THE WORDS, LETTERS AND NUMBERS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52617	WRITING OWN ADDRESS UNAIDED	1	2.00	15- 3 TO 15- 3	**************

OBJECTIVE: 83053 THE STUDENT WILL COPY A SIMPLE 21 WORD STORY FROM THE CHALKBOARD

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52621	COPYING SHORT STORY FROM CHALKBOARD	1	2.00	15- 3 TO 15- 3	**************

SOURCE: SUMMER TRAINEESHIP PROGRAM - CLARION STATE COLLEGE

OBJECTIVE: 85009 WHEN PRINTING A SENTENCE THE STUDENT WILL LEAVE 1/2 INCH SPACE BETWEEN THE WORDS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52619	LEAVING SPACE BETWEEN WORDS WHEN PRINTING	1	1.00	15- 3 TO 15- 3	**************

OBJECTIVE: 85010 THE STUDENT WILL COPY A SENTENCE FROM THE BLACKBOARD ONTO PAPER MAKING LETTERS UNIFORM AND EVENLY SPACED

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52620	COPYING SIMPLE SENTENCE FROM CHALKBOARD	1	1.00	15- 3 TO 15- 3	**************

OBJECTIVE: 85012 THE STUDENT WILL WRITE HER NAME IN MANUSCRIPT USING 1 SPACE FOR CAPITAL LETTERS, 1/2 SPACE FOR LOWER CASE LETTERS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52623	WRITING NAME INDEPENDENTLY	1	1.00	15- 3 TO 15- 3	**************

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90710 THE STUDENT WILL CORRECTLY WRITE CLOSED LETTERS A,O,E,B,G,Q,P,D IN MANUSCRIPT USING PROPER SPACING, PRESSURE, AND FORMATION OF LETTER.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90322 STUDENT WILL PRINT THE CAPITAL LETTERS A-F, ON PRIMARY PAPER WRITTEN 2 SPACES WHEN PRESENTED THE INDIVIDUAL LETTER ON FLASHCARDS BY TEACHER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90389 STUDENT WILL WRITE CAPITAL LETTERS, K TO O, ON THE SAME LINE AS THE CORRESPONDING LETTER WHEN PRESENTED THE SINGER MANUSCRIPT WRITING LOWER CASE LETTER CARD.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90552 STUDENT WILL PRINT LETTERS J TO S WHEN SHOWN INDIVIDUALLY ON FLASHCARDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90555 STUDENT WILL PRINT LOWER CASE LETTES K TO T

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90571 GIVEN ORALLY THE LETTERS I TO P THE STUDENT WILL PRINT BOTH THE UPPER AND LOWER CASE LETTER ACCORDING TO SPECIFIED

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90594 GIVEN ORALLY, LETTERS A-H, THE LEARNER WILL PRINT THE LETTERS IN UPPER AND LOWER CASE.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03271	DOLCH POPPER NUMBERS ADDITION	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8
04467	KINESTHETIC TRACE-THE-LETTERS CARDS:	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8
07146	LEVEL 1 - ADDITION FACTS: SUMS LESS THAN TEN	1	3.00	7- 1 TO 7- 1	7- 8 TO 7- 8

OBJECTIVE: 90599 STUDENT WILL PRINT UPPER CASE LETTERS OF THE ALPHABET GIVEN LETTERS ON INDIVIDUAL FLASHCARDS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90627 STUDENT WILL DRAW LOWER CASE LETTERS A TO E.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90634 STUDENT WILL CONNECT DOTS NUMBERED FROM 1 TO 20 TO FORM LETTERS A TO J

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90640 STUDENT WILL DRAW UPPER CASE LEETTERS A TO J IN MANUSCRIPT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
04686	MOTIVATORS FOR MANUSCRIPT CAPITAL LETTERS	2	1.00	6-10 TO 12- 8	**************
04687	MOTIVATORS FOR MANUSCRIPT LOWER CASE LETTERS	2	1.00	6-10 TO 12- 8	**************
04872	MOTIVATORS NUMBER PUZZLER	1	1.00	11-10 TO 11-10	**************

OBJECTIVE: 90642 STUDENT WILL DRAW IN MANUSCRIPT LOWER CASE LETTERS K TO O

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
03178	TRACING PAPER DESIGNS	1	1.00	8-11 TO 8-11	6- 7 TO 6- 7
03179	TRACING PAPER	1	1.00	8-11 TO 8-11	6- 7 TO 6- 7
04686	MOTIVATORS FOR MANUSCRIPT CAPITAL LETTERS	1	1.00	8-11 TO 8-11	6- 7 TO 6- 7
04687	MOTIVATORS FOR MANUSCRIPT LOWER CASE LETTERS	2	1.00	8-11 TO 8-11	6- 7 TO 6- 7

OBJECTIVE: 90646 STUDENT WILL DRAW UPPER CASE LETTERS P TO T IN MANUSCRIPT

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
00116	DOLCH GROUP SIZE CONSONANT CARDS	1	1.00	7- 8 TO 7- 8	**************
03078	MY FIRST PICTURE DICTIONARY	1	1.00	7- 8 TO 7- 8	**************

OBJECTIVE: 90646 (CONTINUED)

03273	DOLCH MY PUZZLE BOOK 1	1	1.00	7- 8 TO 7- 8	**************
04043	PROGRAMMED READING, BOOK 6	1	2.00	7- 8 TO 7- 8	**************
04686	MOTIVATORS FOR MANUSCRIPT CAPITAL LETTERS	1	1.00	7- 8 TO 7- 8	**************
04687	MOTIVATORS FOR MANUSCRIPT LOWER CASE LETTERS	1	1.00	7- 8 TO 7- 8	**************

CONTENT AREA: E3-03 SPELLING PATTERNS

SOURCE: WESTERN UNIT

OBJECTIVE: 90146 STUDENT WILL READ AND SPELL 3-LETTER SHORT /A/ WORDS RHYMING WITH "AM", "AN", "AT"

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52252	SOUNDS OF A,M,N,T	1	1.00	8- 3 TO 8- 3	7- 2 TO 7- 2

CONTENT AREA: E3-05 SPELLING WORDS

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 99023 THE STUDENT WILL BE ABLE TO SPELL WORDS FROM A SPECIFIED LIST WITH PREDETERMINED ACCURACY AFTER A SPECIFIED PERIOD OF STUDY

OBJECTIVE: 99023 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00254	PRIMARY MULTI-LEVEL SPELLER AND FIRST DICTIO	1	3.00	7- 9 TO 7- 9	8- 1 TO 8- 1
01282	ARITHMETIC STEP BY STEP, KIT A, MEASURES, LE	6	1.00	8- 2 TO 9-10	6- 6*TO* 6- 6
01480	CALENDAR CHART	1	1.00	9- 6 TO 9- 6	**************
01660	ARITHMETIC HANDY PACK	1	1.00	9- 6 TO 9- 6	**************
04262	LANGUAGE GAMES, LEVEL 3	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
04282	SPELLING AND WRITING PATTERNS BOOK B	6	1.17	8- 5 TO 8- 5	5-11 TO 6- 7
04285	PATTERNS IN SPELLING AND WRITING - BOOK D	1	1.00	10- 1 TO 10- 1	10- 9 TO 10- 9
04557	SULLIVAN DECODING KIT FOR BOOKS A,B,C,D	1	2.00	9- 3 TO 9- 3	11- 1 TO 11- 1
05052	PATTERNS IN SPELLING AND WRITING - BOOK C	1	1.00	9- 2 TO 9- 2	7- 3 TO 7- 3
06320	PATTERNS IN SPELLING AND WRITING - BOOK E	1	2.00	11- 5 TO 11- 5	11- 1 TO 11- 1
06921	BASIC GOALS IN SPELLING, 3RD EDITION GRADE 4	2	2.50	9- 8 TO 13- 6	11-11*TO*11-11
07654	CONSONANT SOUNDS AND SYMBOLS - LEVEL 2	1	2.00	6- 9 TO 6- 9	5- 5 TO 5- 5
07683	SOUND AND SENSE IN SPELLING 2	6	2.50	7- 6 TO 10- 0	7- 1 TO 9-11
90490	SILVERMAN GAME BOARD	11	2.27	7- 8 TO 9-10	7- 6 TO 9- 8

SOURCE: SUBURBAN UNIT

OBJECTIVE: 90440 PRESENTED WITH A DICTATED SENTENCE COMPRISED OF VOCABULARY WORDS PRESENTED IN THE HIP READING PROGRAM, THE STUDENT WILL BE ABLE TO WRITE THE SENTENCE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: WESTERN UNIT

OBJECTIVE: 90692 THE STUDENT WILL READ AND SPELL GIVEN LIST OF COMPOUND WORDS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90693 THE STUDENT WILL READ AND SPELL WORDS ENDING IN "LE"

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00021	WORKING WITH SOUNDS C	1	2.00	11- 6 TO 11- 6	11- 2 TO 11- 2
04451	PHONICS IS FUN, BOOK 3	1	2.00	11- 6 TO 11- 6	11- 2 TO 11- 2
06921	BASIC GOALS IN SPELLING, 3RD EDITION GRADE 4	1	2.00	11- 6 TO 11- 6	11- 2 TO 11- 2

CONTENT AREA: E3-06 FINGER SPELLING

SOURCE: RURAL UNIT

OBJECTIVE: 90117 SHOWN THE LETTERS A-Z, THE STUDENT WILL RESPOND WITH THE CORRECT FINGER SPELLING FOR EACH LETTER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90283 SHOWN THE LETTERS D,E,F, AND G THE STUDENT WILL RESPOND WITH THE CORRECT FINGER SPELLING FOR EACH LETTER.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-00 SPEECH AND LANGUAGE DEVELOPMENT

SOURCE: SUMMER TRAINEESHIP PROGRAM - DUQUESNE UNIV.

OBJECTIVE: 84012 THE STUDENT WILL BE ABLE TO MAKE HIS NEEDS AND DESIRES KNOWN TO OTHERS THROUGH VERBAL CUES

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-04 SPEECH/LANG.- ECHOLALIA

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 99024 THE STUDENT WILL ANSWER DIRECT QUESTIONS IN A CONVERSATIONAL TONE ON A ONE TO ONE BASIS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: WESTERN UNIT

OBJECTIVE: 90353 STUDENT WILL DEMONSTRATE SUBSTANTIAL REDUCTION IN FREQUENCY OF ECHOLALIC UTTERANCES

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-05 EXPRESSIVE LANGUAGE

SOURCE: COMPET

OBJECTIVE: 06252 POSSESSES EXPRESSIVE LANGUAGE SKILLS ADEQUATE FOR BASIC ENVIRONMENTAL INTERACTION

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52462	VOCALIZES AND VERBALIZES	1	***,**	17-11 TO 17-11	**************

OBJECTIVE: 06253 MAKES WISHES KNOWN THROUGH GESTURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06254 USES GESTURES IN CONJUNCTION WITH VERBALIZATION TO MAKE WISHES KNOWN

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06255 VERBALIZES KEY WORDS OR SOUNDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06256 CHAINS TWO OR THREE WORDS UNDERSTOOD BY NON-FAMILY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06257 ECHOS SIMPLE 3-5 WORD SENTENCE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06258 SPEAKS SIMPLE 3-5 WORD SENTENCES SPONTANEOUSLY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06259 SPEAKS RECIPROCALLY WITH TEACHER OR PEER USING SIMPLE SENTENCES

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03385	PEABODY LANGUAGE DEVELOPMENT KIT, LEVEL 1	1	2.00	7-10 TO 7-10	7- 0 TO 7- 0

OBJECTIVE: 06260 CONVERSES FOR BRIEF PERIODS OF TIME USING SIMPLE SENTENCES

OBJECTIVE: 06260 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03385	PEABODY LANGUAGE DEVELOPMENT KIT, LEVEL 1	1	1.00	6- 3 TO 6- 3	5- 8 TO 5- 8
04144	PEABODY LANGUAGE DEVELOPMENT KIT, LEVEL P	1	1.00	6- 3 TO 6- 3	5- 8 TO 5- 8

SOURCE: IDAHO TMR SKILLS ASSESSMENT

OBJECTIVE: 83035 THE STUDENT WILL WAVE AND SAY "BYE BYE"

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52603	SAYING "BYE-BYE" WHILE WAVING HAND	1	1.00	7- 2 TO 7- 2	**************

OBJECTIVE: 83083 THE STUDENT WILL IMITATE SOUNDS WHICH HE HEARS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09443 GIVEN QUESTIONS CONCERNING A PICTURE, THE CHILD CAN ANSWER IN COMPLETE THOUGHT UNITS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09445 GIVEN A SET OF PICTURES THAT TELL A STORY, THE CHILD CAN VERBALIZE WHAT THE PICTURES TELL, USING LOGICALLY ORDERED COMPLETE SENTENCES IN DESCRIBING THE STORY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09446 GIVEN AN OPPORTUNITY TO COMPLETE A STORY, THE CHILD USES COMPLETE SENTENCES WHICH ARE WITHIN THE CONTEXT OF THE STORY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - DUQUESNE UNIV.

OBJECTIVE: 84012 THE STUDENT WILL BE ABLE TO MAKE HIS NEEDS AND DESIRES KNOWN TO OTHERS THROUGH VERBAL CUES

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52381	RESPONDING TO SPEECH SOUNDS	1	***.**	4- 3 TO 4- 3	**************

OBJECTIVE: 84018 DEVELOP PRE SPEECH SKILLS NECESSARY FOR REAL SPEECH PRODUCTION

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OBJECTIVE:  84018  (CONTINUED)
RESOURCE                                               NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                        TITLES                   OF USES  RATING      AGE             AGE
                                                                (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     METHODS
52401  USES BLOWING DEVICE                                1     ***.**  8- 9 TO  8- 9  **************
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OBJECTIVE:  84031  THE STUDENT WILL INCREASE DESIRE AND ENHANCE HIS ABILITY
                   TO COMMUNICATE

RESOURCE                                               NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                        TITLES                   OF USES  RATING      AGE             AGE
                                                                (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     METHODS
52421  RESPONDS TO AND IMITATES SOUNDS                    1     ***.**  8-11 TO  8-11  **************
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OBJECTIVE:  84048  THE STUDENT WILL PRODUCE SOUNDS

RESOURCE                                               NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                        TITLES                   OF USES  RATING      AGE             AGE
                                                                (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     METHODS
52437  NAMES AND LOCATES BODY PARTS                       1     ***.** 11- 5 TO 11- 5  **************
52438  VOCALIZES PHONEMES                                 1     ***.** 11- 5 TO 11- 5  **************
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OBJECTIVE: 84063 POSSESSES EXPRESSIVE LANGUAGE SKILLS ADEQUATE FOR SIMPLE SOCIAL INTERACTION ON A ONE TO ONE BASIS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52490	MAKES WISHES KNOWN BY VERBALIZING OR GESTURI	1	***.**	14-11 TO 14-11	**************

SOURCE: SUMMER TRAINEESHIP PROGRAM - PENN STATE UNIV.

OBJECTIVE: 07075 INCREASES AMOUNT OF BABBLING OR VOCAL PLAY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07076 IMITATES SPEECH SOUNDS NEEDED TO PRODUCE WORDS AS PRESENTED BY THE TEACHER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07077 IMITATES SIMPLE SPEECH SOUNDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07078 NAMES ONESELF

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07079 USES YES-NO RESPONSE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07080 NAMES SIGNIFICANT OTHERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07081 IDENTIFIES AND NAMES COMMON OBJECTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07082 IDENTIFIES AND NAMES COMMON ACTIONS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07083 USES SIMPLE NOUN-VERB PHRASE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07084 USES SIMPLE VERB-PREPOSITION PHRASE, E.G., PUT IN, TALK ABOUT, ETC.

NO IMPLEMENTATION RECORD 1973-1974

E4-05 (CONTINUED)

OBJECTIVE: 07085 VERBALLY IDENTIFIES COMMON SIMPLE COMMANDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07086 USES SIMPLE NOUN-VERB SENTENCES THAT ARE GRAMMATICALLY CORRECT, E.G., THE BOY RUNS., THE BALL IS RED., ETC.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07087 USES NOUN-VERB SENTENCES WITH PREPOSITIONAL PHRASES, E.G., THE BALL IS IN THE BOX., THE BOX IS UNDER THE TABLE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRIANEESHIP PROGRAM - DUQUESNE UNIV.

OBJECTIVE: 84003 REPRODUCE A SIMPLE SOUND IN RESPONSE TO ANOTHER

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: TALK

OBJECTIVE: 14001 WHEN GIVEN AN APPROPRIATE STIMULUS PATTERN (E.G. "TELL ME TO RUN"), STUDENT VERBALIZES INTRANSITIVE-VERB COMMAND (E.G. "RUN").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14002 WHEN GIVEN STIMULUS PATTERN (E.G. "TELL JOHN TO GET UP"), STUDENT VERBALIZES INTRANSITIVE-VERB COMMAND WITH A VOCATIVE (E.G. "JOHN, GET UP").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14003 WHEN GIVEN APPROPRIATE STIMULUS PATTERN (E.G. "TELL LISA TO BRING THE CHALK"), STUDENT VERBALIZES TRANSITIVE-VERB COMMANDS BOTH WITH AND WITHOUT VOCATIVE (E.G. "LISA, BRING THE CHALK").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14004 WHEN GIVEN APPROPRIATE STIMULUS PATTERN ("TELL ME NOT TO GO"), STUDENT VERBALIZES COMMANDS WITH THE NEGATIVE "DON'T" (E.G. "DON'T GO").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14011 WHEN SHOWN AN OBJECT OR ITS PICTURE, AND GIVEN A STIMULUS QUESTION (E.G. "WHAT IS THAT?"), STUDENT VERBALIZES SIMPLE DESIGNATIVE SENTENCE (E.G. "IT IS A BRACELET").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14012 WHEN SHOWN AN OBJECT OR ITS PICTURE, AND GIVEN STIMULUS QUESTION REQUIRING AFFIRMATIVE RESPONSE (E.G. "IS THAT A PIN?"), STUDENT VERBALIZES SIMPLE DESIGNATIVE SENTENCE IN THE AFFIRMATIVE (E.G. "YES, IT IS A PIN.").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14013 WHEN SHOWN AN OBJECT OR ITS PICTURE, AND GIVEN STIMULUS QUESTION REQUIRING NEGATIVE RESPONSE, STUDENT VERBALIZES SIMPLE DESIGNATIVE SENTENCE IN THE NEGATIVE (E.G. "NO, IT IS NOT A BOTTLE.").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14014 WHEN SHOWN AN OBJECT OR ITS PICTURE, AND GIVEN STIMULUS QUESTION REQUIRING NEGATIVE RESPONSE, STUDENT VERBALIZES BOTH NEGATIVE AND AFFIRMATIVE DESIGNATIVE SENTENCE (E.G. "NO, IT IS NOT A BRACELET, IT IS A NECKLACE.").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14015 WHEN SHOWN AN OBJECT OR ITS PICTURE AND GIVEN AN APPROPRIATE MODEL SENTENCE (E.G. "ASK SUSAN IF THIS IS A SCARF."), STUDENT VERBALIZES A (YES/NO) QUESTION REQUIRING AN AFFIRMATIVE RESPONSE WITH A VOCATIVE (E.G. "SUSAN, IS THIS A SCARF?).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14016 WHEN SHOWN AN OBJECT OR ITS PICTURE AND GIVEN AN APPROPRIATE MODEL SENTENCE (E.G. "ASK TOMMY WHAT THIS IS."), STUDENT VERBALIZES A ("WH") QUESTION WITH A VOCATIVE (E.G. "TOMMY, WHAT IS THIS?").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14017 WHEN SHOWN TWO EXAMPLES OR PICTURES OF THE SAME OBJECT WITH A PROMINENT SIZE, COLOR, OR SHAPE CONTRAST AND ASKED A QUESTION ABOUT ONE (E.G. "IS THE RULER LONG?), STUDENT VERBALIZES A PREDICATIVE SENTENCE IN THE AFFIRMATIVE (E.G. "YES, THE RULER IS LONG.").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14018 WHEN SHOWN TWO EXAMPLES OR PICTURES OF AN OBJECT WITH A PROMINENT SIZE, COLOR, OR SHAPE CONTRAST AND ASKED A QUESTION ABOUT ONE (E.G. "IS THE SKIRT LONG?), STUDENT VERBALIZES A NEGATIVE-AFFIRMATIVE CONTRAST IN A PREDICATIVE SENTENCE (E.G. "NO, THE SKIRT IS NOT LONG, IT IS SHORT.").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 14019 WHEN SHOWN AN OBJECT OR ITS PICTURE AND ASKED A SERIES OF QUESTIONS ABOUT IT (E.G. "IS THAT A BRACELET?"; "IS IT PRETTY?"; "WHAT KIND OF BRACELET IS IT, THEN?"), STUDENT VERBALIZES A DESIGNATIVE SENTENCE WITH AN ADJECTIVE (E.G. "IT IS A PRETTY BRACELET.").

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90045 GIVEN PICTURES OF COMMON OBJECTS, STUDENT MATCHES THEM TO STIMULUS PICTURES, THEN USES THE OBJECTS' NAMES IN FULL, SIMPLE SENTENCES REPRESENTING AN ACTOR-ACTION RELATIONSHIP (E.G. "I HAVE A CHAIR").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90052 GIVEN A THEMATIC PICTURE DESCRIBING A COMMON EXPERIENCE OR ACTIVITY STUDENT, UPON DEMAND, DESCRIBES THE ACTIVITY IN A PIVOT PHRASE (E.G. "WASH CAR" OR "DADDY WASH CAR").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90076 WHEN GIVEN A KNOWN COMMON OBJECT OR SHOWN ITS PICTURE, AND GIVEN A STIMULUS QUESTION, STUDENT VERBALIZES THE NAME IN AT LEAST A PIVOT PHRASE (E.G. "I SEE KEY" OR "HAVE KEY").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90120 WHEN SEATED AT 12" DISTANCE FACING TEACHER ACROSS TABLE, AND GIVEN ORAL STIMULUS WORD "MOTHER" EVERY TEN SECONDS, STUDENT WILL VERBALIZE AT LEAST 15 GOOD IMITATIONS (BISYLLABIC UTTERANCE, CORRECT VOWEL AND INITIAL /M/) PER 12-MINUTE SESSION ON 5 CONSECUTIVE DAYS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90125 WHILE ENGAGED WITH TEACHER ON OBJECT RECOGNITION OR OBJECT-PICTURE ASSOCIATION TASK, STUDENT PRODUCES AT LEAST 20 VOCALIZATIONS ON EXPIRATION PER 25 MINUTE SESSION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90173 WHEN GIVEN A PAIR OF PRESCHHOOL LEVEL SCHEMATIC PICTURES AND ASKED A "USE" QUESTION ABOUT EACH (E.G. "WHAT DOES MOMMY DO WITH A SWEEPER?"), STUDENT VERBALIZES A DESCRIPTIVE SENTENCE OR PHRASE (E.G. "MOMMY CLEANS (THE) FLOOR.").

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90242 WHEN SEATED AT 12" DISTANCE FACING TEACHER ACROSS TABLE, AND GIVEN THE SAME ORAL STIMULUS WORD EVERY 10 SECONDS, STUDENT VERBALIZES AT LEAST 15 GOOD IMITATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90243 WHEN SHOWN A PICTURE PORTRAYING A TRANSITIVE-VERB ACTION, STUDENT EXPRESSES SUBJECT, VERB, AND OBJECT IN AT LEAST A PIVOT PHRASE (E.G. 'GIRL BUILD TOWER').

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90244 WHEN SHOWN A LARGE PICTURE PORTRAYING OBJECTS/ANIMALS RELATED TO FARM LIFE, STUDENT NAMES AT LEAST 20 DETAILS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90299 WHEN SHOWN A PICTURE OF A TRUCK, CAR, TRAIN, AIRPLANE, BOAT AND BUS, THE STUDENT WILL BE ABLE TO SAY ITS NAME CORRECTLY.

OBJECTIVE: 90299 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
03385	PEABODY LANGUAGE DEVELOPMENT KIT, LEVEL 1	1	1.00	5- 7 TO 5- 7	**************

OBJECTIVE: 90302 SHOWN A PICTURE OR AN IMITATION APPLE, ORANGE, ONION, BANANA, TOMATO, PINEAPPLE, PEAR, CARROT, CORN THE STUDENT WILL BE ABLE TO VERBALIZE THEIR NAMES 100% OF THE TIME ON 2 CONSECUTIVE DAYS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90338 GIVEN 25 OBJECTS AND PICTURES TO HOLD AND ASKED THE QUESTION, "DO YOU LIKE (WHATEVER THE OBJECT IS)?" THE LEARNER SHALL RESPOND WITH "I LIKE" OR "I DON'T LIKE" (THE OBJECT).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90339 GIVEN TWENTY FAMILIAR OBJECTS, ONE AT A TIME, TO HOLD IN HAND AND ASKED THE QUESTION "WHAT DO YOU HAVE?" THE LEARNER RESPONDS WITH "I HAVE ".

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05424	WHAT'S MISSING? LOTTO	1	3.00	5-11 TO 5-11	**************

OBJECTIVE: 90342 WHEN PRESENTED WITH 12 PICTURES OF PEOPLE FROM VARIOUS OCCUPATIONS, THE STUDENT SHALL VERBALLY IDENTIFY THE OCCUPATION AND, IN A FEW WORDS, TELL SOMETHING ABOUT WHAT EACH OCCUPATION DOES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03385	PEABODY LANGUAGE DEVELOPMENT KIT, LEVEL 1	1	3.00	5-11 TO 5-11	**************

OBJECTIVE: 90455 STUDENT WILL SAY "TEA" BEFORE GETTING A DRINK OF TEA.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	18- 0 TO 18- 0	**************

OBJECTIVE: 90456 STUDENT WILL SAY "WATER" BEFORE GETTING A DRINK AT WATER FOUNTAIN

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	18- 0 TO 18- 0	**************

OBJECTIVE: 90457 STUDENT WILL SIT, RAISE HIS HAND AND SAY "BATHROOM" WHEN ASKED WHAT HE WANTS, BEFORE HE LEAVES THE CLASSROOM FOR THE BATHROOM.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	18- 0 TO 18- 0	**************

OBJECTIVE: 90474 GIVEN VARIOUS GEOMETRIC SHAPES ON CARDS, THE STUDENT WILL VERBALL IDENTIFY THE VARIOUS SHAPES BY SAYING "THIS IS A CIRCLE, THIS IS A SQUARE....ETC."

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03565	ATTRIBUTE GAMES AND PROBLEMS	2	2.00	5-11 TO 5-11	**************

OBJECTIVE: 90563 GIVEN AN OBJECT TO HOLD AND ASKED "WHAT DO YOU HAVE" THE LEARNER WILL RESPOND "I HAVE A (OBJECT)"

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05424	WHAT'S MISSING? LOTTO	1	3.00	5-11 TO 5-11	**************
07136	COLORED WOOD BLOCKS	1	2.00	5-11 TO 5-11	**************

OBJECTIVE: 90578 WHEN PRESENTED WITH A PICTURE OR AN OBJECT, THE LEARNER WILL RESPOND TO THE QUESTION, "WHAT DO YOU SEE?" WITH "IS (WHATEVER THE OBJECT IS)."

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90580 THE LEARNER WILL NAME A SERIES OF PICTURES OF COMMON SCENES, OBJECTS AND ANIMALS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90589 GIVEN SEVERAL CHILDREN'S MAGAZINES TO LOOK THROUGH, THE STUDENT WILL IDENTIFY ORALLY, UTILIZING EITHER WORDS OR PHRASES VARIOUS PICTURES AND ITEMS SHE SEES IN THE MAGAZINES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90595 GIVEN PICTURES OF PEOPLE FROM VARIOUS OCCUPATIONS THE STUDENT WILL VERBALLY IDENTIFY THE OCCUPATION, AND TELL WHAT EACH OCCUPATION DOES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
03385	PEABODY LANGUAGE DEVELOPMENT KIT, LEVEL 1	1	2.00	5-11 TO 5-11	**************

OBJECTIVE: 90655 WHEN SHOWN A PICTURE OF A PERSON IN SOME ACTIVITY THE CHILD WILL SAY "HE IS (OR SHE, THEY, ETC.) ," FILLING IN THE BLANK WITH THE APPROPRIATE ACTIVITY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03385	PEABODY LANGUAGE DEVELOPMENT KIT, LEVEL 1	1	1.00	6- 2 TO 6- 2	4- 4 TO 4- 4
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	6- 2 TO 6- 2	4- 4 TO 4- 4

SOURCE: SUBURBAN UNIT

OBJECTIVE: 90315 GIVEN A FAMILIAR WORD GROUP, BE ABLE TO ADD TO THIS WORD GROUP TO MAKE A COMPLETE SENTENCE.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
90284	FLASH CARDS	1	2.00	8- 9 TO 8- 9	8- 8 TO 8- 8

OBJECTIVE: 90316 GIVEN A FAMILIAR PHRASE, BE ABLE TO ADD TO THIS PHRASE TO DICTATE A SHORT STORY

OBJECTIVE: 90316 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
90284	FLASH CARDS	2	1.50	8- 3 TO 11- 9	7- 3 TO 8-11

SOURCE: WESTERN UNIT

OBJECTIVE: 90350 ON PRESENTATION OF STIMULUS OBJECT (COMB, CUP) LEARNER WILL MAKE A HAND MOVEMENT PANTOMIMING THE USE OF THE OBJECT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90351 IN STRUCTURED CLASSROOM SITUATIONS, STUDENT WILL NOD HEAD TO INDICATE AFFIRMATIVE RESPONSE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90356 STUDENT WILL USE PANTOMIME TO EXPRESS HIS CHOICE OF A CLASSROOM ACTIVITY

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07551	SENSORI-MOTOR TRAINING IN THE CLASSROOM	1	2.00	9- 3 TO 9- 3	**************

E4-05 (CONTINUED)

OBJECTIVE: 90358 THE STUDENT WILL IDENTIFY ORALLY THE DAY OF THE WEEK, THE MONTH AND THE DATE UPON REQUEST

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90359 IDENTIFY BY NAME OF THE DAY - YESTERDAY, TODAY AND TOMORROW.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90360 THE STUDENT WILL SPEAK APPROPRIATELY IN 2-3 WORD SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90374 THE STUDENT WILL IDENTIFY OBJECTS AND PICTURES BY USING A FOUR-WORD SENTENCE, INCLUDING A DEFINITE OR INDEFINITE ARTICLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90670 GIVEN THE OPPORTUNITY TO CHOOSE HIS OWN CLASSROOM ACTIVITY, CHILD WILL VERBALIZE HIS CHOICE, USING 2-3 WORD PHRASES

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-06 SPEECH/LANG.- LIP CONTROL

SOURCE: SUMMER TRAINEESHIP PROGRAM - PENN STATE UNIV.

OBJECTIVE: 07271 HOLDS LIP CARD BETWEEN HIS LIPS WITH NO TEETH SUPPORT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07274 LICKS AND SWALLOWS ALL THE STICKY SUBSTANCES (E.G., PEANUT BUTTER) PLACED IN MOUTH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07275 IMITATES FACIAL POSTURE PERFORMED BY THE TEACHER.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-08 RECEPTIVE LANGUAGE

SOURCE: COMPET

OBJECTIVE: 06246 POSSESSES RECEPTIVE LANGUAGE SKILLS ADEQUATE FOR BASIC ENVIRONMENTAL INTERACTION

OBJECTIVE: 06246 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52388	TOUCHING VARIOUS OBJECTS	1	***.**	9- 1 TO 9- 1	**************

OBJECTIVE: 06247 INDICATES AWARENESS OF BEING ADDRESSED

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52137	WALKING TOWARD TEACHER	1	***.**	6- 5 TO 6- 5	**************

OBJECTIVE: 06248 RESPONDS APPROPRIATELY TO A SIMPLE COMMISSION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06249 INITIATES A SIMPLE ACTIVITY UPON REQUEST

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06250 FOLLOWS THROUGH ON A TWO-STAGE ACTIVITY UPON AN INITIAL REQUEST

NO IMPLEMENTATION RECORD 1973-1974

E4-08 (CONTINUED)

OBJECTIVE: 06251 FOLLOWS THROUGH ON A MULTI-STAGE ACTIVITY UPON AN INITIAL REQUEST

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06265 COMPREHENDS SIMPLE SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IU 19

OBJECTIVE: 08163 THE STUDENT WILL RESPOND TO SIMPLE VERBAL COMMANDS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - PENN STATE UNIV.

OBJECTIVE: 07060 TURNS HEAD TOWARD SOURCE OF SOUND.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07061 MOVES TOWARD SOURCE OF SOUND.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07062 RECOGNIZES AND ASSOCIATES SOUNDS WITH THEIR SOURCES

NO IMPLEMENTATION RECORD 1973-1974

E4-08 (CONTINUED)

OBJECTIVE: 07063 RECOGNIZES OWN NAME WHEN IT IS SPOKEN.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07064 IMITATES CORRECTLY GROSS MOTOR MOVEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07065 RESPONDS TO SIMPLE COMMANDS WITH TEACHER DEMONSTRATION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07066 RESPONDS TO SIMPLE COMMANDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07067 RECOGNIZES AND ASSOCIATES LABEL OF SELF

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07068 RECOGNIZES AND ASSOCIATES LABELS OF THE TEACHER

NO IMPLEMENTATION RECORD 1973-1974

E4-08 (CONTINUED)

OBJECTIVE: 07069 RECOGNIZES AND ASSOCIATES LABELS OF SIGNIFICANT OTHERS (FATHER MOTHER, ETC.)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07070 RECOGNIZES AND ASSOCIATES AN OBJECT WITH ITS NAME WHEN PRESENTED WITH ITS CORRESPONDING OBJECT (EXAMPLES-FOOD, CLOTHING, TOYS, ETC)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07071 RECOGNIZES AND ASSOCIATES PRINTED LABEL WITH SELF.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07072 RECOGNIZES AND ASSOCIATES SIGNIFICANT OTHERS WITH APPROPRIATE PRINTED LABELS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07073 ASSOCIATES PRINTED LABELS (NAMES) WITH APPROPRIATE ARTICLES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07074 RECOGNIZES AND ASSOCIATES PRINTED LABELS WITH APPROPRIATE ACTIONS

NO IMPLEMENTATION RECORD 1973-1974

E4-08 (CONTINUED)

OBJECTIVE: 07221 RESPONDS, BY COMING TO THE TEACHER, WHEN "COME HERE" ACCOMPANIED BY THE STUDENT'S NAME IS SPOKEN.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07223 STOPS ON THE COMMAND "STOP" WHILE RUNNING OR WALKING, AND DOES NOT PROCEED UNTIL COMMAND "GO" IS GIVEN.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07230 DOES NOT TOUCH OBJECTS HE APPROACHES OR REACHES FOR WHEN "HOT" IS SAID EMPHATICALLY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: WESTERN UNIT

OBJECTIVE: 90369 GIVEN VERBAL DIRECTION, THE LEARNER WILL RETRIEVE INDIVIDUAL OBJECTS FROM A COLLECTION (KEY, COMB, BALL, BOOK, RING, SPONGE, ROPE)

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-09 SIGN LANGUAGE

SOURCE: RURAL UNIT

OBJECTIVE: 90148 WHEN SHOWN THE FOLLOWING MANUAL SIGNS (SIGN LANGUAGE) STOP, GO, BUS, MOMMY, DADDY, HOME, WALK, RUN, SIT DOWN, LOOK, COME, TODAY, THE STUDENT WILL RESPOND BY INDICATING THE APPROPRIATE OBJECT, PICTURE OR ACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90150 SHOWN VARIOUS RED, BLUE, GREEN AND YELLOW OBJECTS THE STUDENT WILL RESPOND WITH THE APPROPRIATE MANUAL SIGN TO SPECIFIED CRITERION LEVEL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90151 SHOWN OBJECTS RANGING IN NUMBER FROM 1 TO 10 OR THEIR NUMERICAL SYMBOLS THE STUDENT WILL RESPOND WITH THE CORRECT MANUAL SIGN FOR EACH NUMBER AND/OR SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90152 WHEN SHOWN THE FOLLOWING MANUAL SIGNS: DAYS OF THE WEEK, OCTOBER, NOVEMBER, PLEASE, SORRY, THE STUDENT WILL RESPOND IN AN APPROPRIATE MANNER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90283 SHOWN THE LETTERS D,E,F, AND G THE STUDENT WILL RESPOND WITH THE CORRECT FINGER SPELLING FOR EACH LETTER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90298 PRESENTED WITH THE SYMBOLS 6,7,8,9,10 RANDOMLY, THE STUDENT WILL RESPOND WITH THE CORRECT HAND SIGN FOR EACH NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-11 SPEECH/LANG. - SOUND IMITATION

SOURCE: COMPET

OBJECTIVE: 06185 DEMONSTRATES ABILITY TO REPRODUCE SOUND (HELP THE STUDENT REMEMBER WHAT HE KNOWS)

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IU 19

OBJECTIVE: 08161 THE STUDENT WILL IMITATE SIMPLE GESTURES E.G. BYE, BYE AND HI

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 08162 THE STUDENT WILL IMITATE SOUNDS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - PENN STATE UNIV.

OBJECTIVE: 07076 IMITATES SPEECH SOUNDS NEEDED TO PRODUCE WORDS AS PRESENTED BY THE TEACHER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07077 IMITATES SIMPLE SPEECH SOUNDS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90074 WHEN SHOWN A PICTURE OF A SNAKE, STUDENT WILL IMITATE THE SOUND /S/ FOR THREE SECONDS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90075 WHEN SHOWN A PICTURE OF A BUMBLE BEE, STUDENT IMITATES THE SOUND /V/ FOR THREE SECONDS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90120 WHEN SEATED AT 12" DISTANCE FACING TEACHER ACROSS TABLE, AND GIVEN ORAL STIMULUS WORD "MOTHER" EVERY TEN SECONDS, STUDENT WILL VERBALIZE AT LEAST 15 GOOD IMITATIONS (BISYLLABIC UTTERANCE, CORRECT VOWEL AND INITIAL /M/) PER 12-MINUTE SESSION ON 5 CONSECUTIVE DAYS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90126 WHEN SEATED TO THE LEFT OF TEACHER FACING MIRROR, STUDENT IMITATES MOUTH POSITION FOR VOWEL SOUNDS (I.E. WIDE OPEN) WHEN TEACHER MODELS IT, AT LEAST 15 TIMES EACH ON FIVE CONSECUTIVE DAYS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90241 WHEN SEATED TO THE SIDE OF TEACHER FACING MIRROR OR AT 12" DISTANCE FACING TEACHER, AND WHEN GIVEN ORAL SYLLABLE STIMULI, STUDENT PRODUCES GOOD IMITATIONS OF VOWEL SOUNDS AND COMBINATIONS OF VOWELS WITH INITIAL SOUNDS E.G. /M/, /N/, /B/, AND /P/.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90242 WHEN SEATED AT 12" DISTANCE FACING TEACHER ACROSS TABLE, AND GIVEN THE SAME ORAL STIMULUS WORD EVERY 10 SECONDS, STUDENT VERBALIZES AT LEAST 15 GOOD IMITATIONS.

NO IMPLEMENTATION RECORD 1973-1974

E4-11 (CONTINUED)

OBJECTIVE: 90245 WHEN SEATED TO THE SIDE OF TEACHER FACING MIRROR OR AT 12" DISTANCE FACING TEACHER, AND WHEN GIVEN ORAL VOWEL SOUND STIMULI, STUDENT PRODUCES GOOD IMITATIONS OF VOWEL SOUNDS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-12 SOUNDMAKING/ARTICULATION

SOURCE: CRTR

OBJECTIVE: 15145 GIVEN INCOMPLETE PRESENT TENSE SENTENCES AND LISTS OF ALTERNATIVE FORMS OF ONE VERB, THE PUPIL USES VERB ENDING RULES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IU 19

OBJECTIVE: 08160 THE STUDENT WILL RESPOND VERBALLY TO STIMULATION

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - DUQUENSE UNIV.

OBJECTIVE: 84006 AFTER BEING SHOWN VARIOUS PICTURES OF A COW, DOG AND A LAMB, THE STUDENT WILL PRODUCE THE SOUNDS MOO - ARF - BAA

OBJECTIVE: 84006 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
METHODS					
52364	PRODUCING ANIMAL SOUNDS IN RESPONSE TO PICTU	1	***.**	5-10 TO 5-10	**************

OBJECTIVE: 84009 SIMULATE LANGUAGE THROUGH THE USE AND PRODUCTION OF SOUNDS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
METHODS					
52373	RESPONDING TO AUDITORY STIMULI	1	***.**	4- 2 TO 4- 2	**************

SOURCE: SUMMER TRAINEESHIP PROGRAM - DUQUESNE UNIV.

OBJECTIVE: 84048 THE STUDENT WILL PRODUCE SOUNDS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRIANEESHIP PROGRAM - DUQUESNE UNIV.

OBJECTIVE: 84003 REPRODUCE A SIMPLE SOUND IN RESPONSE TO ANOTHER

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-14 SPEECH/LANG.- STUTTERING

SOURCE: RURAL UNIT

OBJECTIVE: 90059 STUDENT RECITES ALOUD, FROM MEMORY, FOUR-LINE POEM WITHOUT STUTTERING MORE THAN THREE TIMES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90060 STUDENT RECITES ALOUD FROM MEMORY AN EIGHT-LINE POEM WITHOUT STUTTERING MORE THAN THREE TIMES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90061 STUDENT RECITES ALOUD FROM MEMORY EIGHT-LINE POEM WHILE POINTING APPROPRIATELY TO PICTURES ON CHALKBOARD, WITHOUT STUTTERING MORE THAN THREE TIMES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90062 STUDENT RECITES ALOUD TO ENTIRE CLASS, FROM MEMORY, AN EIGHT-LINE POEM WHILE POINTING APPROPRIATELY TO PICTURES ON CHALKBOARD, WITHOUT STUTTERING MORE THAN THREE TIMES.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-15 SPEECH/LANG.- TEETH CONTROL

SOURCE: RURAL UNIT

OBJECTIVE: 90126 WHEN SEATED TO THE LEFT OF TEACHER FACING MIRROR, STUDENT IMITATES MOUTH POSITION FOR VOWEL SOUNDS (I.E. WIDE OPEN) WHEN TEACHER MODELS IT, AT LEAST 15 TIMES EACH ON FIVE CONSECUTIVE DAYS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E4-16 SPEECH/LANG.- TONGUE CONTROL

SOURCE: IU 19

OBJECTIVE: 08156 THE STUDENT WILL EXTEND TONGUE STRAIGHT OUT WHEN STIMULATED

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 08157 THE STUDENT WILL DEVELOP SKILL IN TONGUE MOVEMENT BY REMOVING FOOD FROM BETWEEN LIP AND LOWER FRONT TEETH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 08158 THE STUDENT WILL DEVELOP SKILL IN TONGUE MOVEMENT BY REMOVING FOOD FROM INSIDE CHEEK

NO IMPLEMENTATION RECORD 1973-1974

E4-16 (CONTINUED)

OBJECTIVE: 08159 THE STUDENT WILL DEVELOP SKILLS IN MANIPULATING JAW AND TONGUE MUSCLES NECESSARY FOR SPEECH

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90126 WHEN SEATED TO THE LEFT OF TEACHER FACING MIRROR, STUDENT IMITATES MOUTH POSITION FOR VOWEL SOUNDS (I.E. WIDE OPEN) WHEN TEACHER MODELS IT, AT LEAST 15 TIMES EACH ON FIVE CONSECUTIVE DAYS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E5-01 STUDY SKILLS/ALPHABETIZE

SOURCE: RURAL UNIT

OBJECTIVE: 90724 GIVEN THE UPPER CASE LETTERS OF THE ALPHABET A THRU H THE CHILD WILL BE ABLE TO ARRANGE THEM IN CORRECT ALPHABETICAL ORDER WITH 100% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: E5-07 STUDY SKILLS/WORD HABITS

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90756 THE STUDENT WILL CORRECTLY RESPOND TO 80% OF THE PROBLEMS ON THE DAILY ASSIGNMENT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90758 THE STUDENT WILL COME TO THE RESOURCE ROOM, SECURE WORK FOLDER IMMEDIATELY AND GET RIGHT TO WORK

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52861	BEHAVIOR MODIFICATION	1	2.00	13- 7 TO 13- 7	10- 0 TO 10- 0

OBJECTIVE: 90759 THE STUDENT WILL GIVE EVIDENCE OF 50 MINUTES OF CONCENTRATED WORK DURING RESOURCE ROOM SESSION

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52862	BEHAVIOR MODIFICATION	1	1.00	12- 2 TO 12- 2	12- 2 TO 12- 2

OBJECTIVE: 90761 THE STUDENT WILL REMAIN SILENT FOR 20 MINUTES AT THE BEGINNING OF RESOURCE ROOM SESSION WITH EXCEPTION OF PERTINENT QUESTION REGARDING MATERIAL

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52864	BEHAVIOR MODIFICATION	1	1.00	14- 8 TO 14- 8	8- 2 TO 8- 2

CONTENT AREA: F0-00 MATHEMATICS

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90443 THE STUDENT WILL BE ABLE TO ATTAIN 70% CORRECT OF MATH PROBLEMS ATTEMPTED

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03008	CROSS-NUMBER PUZZLE BOX WHOLE NUMBERS	1	2.00	13- 7 TO 13- 7	10- 0 TO 10- 0

CONTENT AREA: F1-01 ABACUS

SOURCE: SRA

OBJECTIVE: 18323 (A,B) READ NUMBERS OF UP TO 9 DIGITS FROM AN ABACUS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-02 BASE NUMBER SYSTEMS

SOURCE: HEATH

F1-02 (CONTINUED)

OBJECTIVE: 21381 READ AND WRITE SOME NUMBERS IN BASE FIVE NOTATION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21460 READ AND WRITE SOME NUMBERS IN PLACE-VALUE NUMERATION SYSTEMS WITH BASES OTHER THAN TEN.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18329 (A-D) REGROUP A SET INTO SUBSETS TO DESCRIBE A NUMBER IN ANOTHER NUMBER BASE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18330 (A,B) COMPLETE A SERIES OF BASE-FOUR NUMERALS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18331 (A-D) RECOGNIZE WHICH DIGITS CAN BE USED TO FORM NUMERALS IN BASE SIX

NO IMPLEMENTATION RECORD 1973-1974

F1-02 (CONTINUED)

OBJECTIVE: 18332 (A,B) USE EXPANDED NOTATION TO EXPRESS A NUMBER IN ANOTHER NUMBER BASE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18333 (A-D) TRANSLATE NUMBERS LESS THAN 256 FROM BASE TEN TO BASE FOUR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18334 (A-D) TRANSLATE NUMBERS LESS THAN 256 FROM BASE FOUR TO BASE TEN

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-03 COUNTING/CARDINAL

SOURCE: COMPET

OBJECTIVE: 06311 COUNTS BY ROTE UP TO TEN

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06312 ENUMERATES UP TO TEN OBJECTS

OBJECTIVE: 06312 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01571	FLANNEL BOARD NUMBERS	1	2.00	7- 2 TO 7- 2	**************
03279	NUMBER COUNTING GAME	1	1.00	6- 3 TO 6- 3	**************
07667	INTO MATHEMATICS LABTEXT - BOOK 1	1	2.00	7- 2 TO 7- 2	**************
	METHODS				
52145	CUTS WITH SCISSORS ALONG LINE	1	***.**	3- 9 TO 3- 9	**************
	TEST/TASK				
00517	COUNTING	1	1.00	3- 9 TO 3- 9	**************

SOURCE: HEATH

OBJECTIVE: 21109 COUNT THE ELEMENTS OF SETS HAVING 5 OR FEWER ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21110 MATCH THE PROPER STANDARD NUMERALS WITH SETS OF FROM 1 TO 5 ELEMENTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05635	TRAIN-ING FUN WITH NUMBERS - BOOK 1	1	1.00	6- 9 TO 6- 9	4-11 TO 4-11
90384	NUMERAL WORD RECOGNITION POSTERS	1	1.00	6- 9 TO 6- 9	4-11 TO 4-11
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	6- 9 TO 6- 9	4-11 TO 4-11

F1-03 (CONTINUED)

OBJECTIVE: 21111 ORDER THE NUMBERS 1 TO 5.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21113 DRAW SETS OF FROM 1 TO 5 ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21114 COUNT THE ELEMENTS OF SETS HAVING 6 OR FEWER ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21116 ORDER THE NUMBERS 1 THROUGH 6.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21122 COUNT THE ELEMENTS OF SETS HAVING 10 OR FEWER ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21124 ORDER THE NUMBERS 1 THROUGH 10.

NO IMPLEMENTATION RECORD 1973-1974

F1-03 (CONTINUED)

OBJECTIVE: 21129 COUNT THE ELEMENTS IN SETS WITH 1,2,3,4, OR 5 ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21130 CONSTRUCT, BY DRAWING ELEMENTS, SETS WITH 1,2,3,4, OR 5 ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21132 COUNT THE ELEMENTS IN SETS WITH UP TO 10 ELEMENTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01201	ARITHMETIC STEP BY STEP, KIT A, COUNTING, LE	2	2.00	6-10 TO 8- 2	2-10 TO 6- 6
04140	MATCHMATES - NUMBER PAIRS	1	2.00	7- 6 TO 7- 6	*************
06493	INQUISITIVE GAMES, DISCOVERING HOW TO LEARN,	1	***.**	7- 6 TO 7- 6	*************

OBJECTIVE: 21136 DETERMINE WHICH OF TWO NUMBERS (0-10) IS GREATER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03215	FLANNEL BOARD CUT-OUTS	3	2.33	8-11 TO 10-11	5- 1 TO 8- 1
06096	NUMBER PUZZLE BOARD	3	1.33	8-11 TO 10-11	5- 1 TO 8- 1

OBJECTIVE: 21138 DETERMINE, BY COUNTING, THE LENGTH OF A NUMBER LINE JUMP.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21143 SKIP COUNT BY 2.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21146 COMPUTE BY COUNTING SOME SUMS OF THREE ADDENDS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21148 COUNT TO 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21149 SKIP COUNT BY 5 OR 10 TO 100.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05841	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	4.00	8- 2 TO 8- 2	6-11 TO 6-11
90495	NUMBER CARDS	5	2.20	7- 5 TO 7-11	7- 0 TO 7- 2

OBJECTIVE: 21174 COUNT THE ELEMENTS OF SETS CONTAINING UP TO 10 ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21193 COUNT BY 5'S AND BY 10'S TO 100.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01606	PROGRESS IN MASTERING MATHEMATICS, B, 3RD GR	1	1.00	10- 4 TO 10- 4	7- 3 TO 7- 3

OBJECTIVE: 21194 COUNT BY 2'S, 3'S, AND 4'S TO 100.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01474	PLASTIC COUNTING DISCS	1	1.00	11-10 TO 11-10	**************
01501	BEAD FRAME ABACUS	1	3.00	11-10 TO 11-10	**************
01570	CUBICAL COUNTING BLOCKS	1	1.00	11-10 TO 11-10	**************
01579	INDIVIDUAL NUMBER LINES	2	2.00	8- 9 TO 9- 3	7- 7 TO 8- 5
03915	ELEMENTARY SCHOOL MATHEMATICS, BOOK 2,	2	1.50	8- 9 TO 9- 3	7- 7 TO 8- 5
05335	PEG BOARD	2	1.50	8- 9 TO 9- 3	7- 7 TO 8- 5
05845	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	11- 4 TO 11- 4	9- 2 TO 9- 2
07018	PEGS	2	1.00	8- 9 TO 9- 3	7- 7 TO 8- 5

OBJECTIVE: 21213 COUNT BY 100'S TO 1000.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IDAHO TMR SKILLS ASSESSMENT

OBJECTIVE: 83012 WHEN GIVEN 4 BLOCKS OR ITEMS, ONE AT A TIME, THE STUDENT WILL COUNT THEM THEN GIVE THEM BACK TO INSTRUCTOR AND COUNT 1,2,3,4

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52591	NUMERATION/COUNTING	1	1.00	9- 9 TO 9- 9	**************
52700	COUNTING TO THREE	1	1.00	8- 2 TO 8- 2	**************
52806	COUNTING TO TEN	1	1.00	11- 2 TO 11- 2	**************

SOURCE: IOX

OBJECTIVE: 09492 GIVEN INSTRUCTIONS TO DO SO, THE CHILD CAN RECITE NUMBERS (COUNT) FROM 1 TO 30, FORWARDS OR BACKWARDS, BEGINNING AT ANY POINT WITHOUT REFERRING TO NUMERALS BEFORE HIM.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01202	ARITHMETIC STEP BY STEP, KIT A, COUNTING, LE	1	1.00	7-10 TO 7-10	**************
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	7- 4 TO 7- 4	**************
05842	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	7- 4 TO 7- 4	**************

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OBJECTIVE:  09492  (CONTINUED)
07525  COUNTING RODS                                  1      2.00  7- 9 TO  7- 9   5- 8 TO  5- 8
07655  STRUCTURAL ARITHMETIC 1, UNIT BLOCKS           1      2.00  7- 4 TO  7- 4   **************
07710  EARLY APPROACHES TO READING SERIES (EARS)      1      1.00  7- 9 TO  7- 9   5- 8 TO  5- 8
------------------------------------------------------------------------------------------------

SOURCE:  SUMMER TRAINEESHIP PROGRAM - PENN STATE UNIV.


OBJECTIVE:  07003  LIFTS CHEST 3 INCHES FROM FLOOR WHEN PLACED IN A PRONE POSITION

                              NO IMPLEMENTATION RECORD 1973-1974


OBJECTIVE:  07152  HOLDS UP ONE FINGER IN IMITATION

                              NO IMPLEMENTATION RECORD 1973-1974


OBJECTIVE:  07153  NAMES THE NUMBER ONE VERBALLY WHILE HOLDING UP ONE FINGER

                              NO IMPLEMENTATION RECORD 1973-1974


OBJECTIVE:  07154  NAMES THE NUMBER ONE WHEN ONE OBJECT IS PRESENTED

                              NO IMPLEMENTATION RECORD 1973-1974


OBJECTIVE:  07155  COUNTS ONE-TWO WHEN PRESENTED TWO OBJECTS

                              NO IMPLEMENTATION RECORD 1973-1974
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F1-03 (CONTINUED)

OBJECTIVE: 07156 COUNTS ONE-TWO-THREE WHEN PRESENTED THREE OBJECTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07157 COUNTS ONE-TWO-THREE-FOUR WHEN PRESENTED FOUR OBJECTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07158 COUNTS ONE-TWO-THREE-FOUR-FIVE WHEN PRESENTED FIVE OBJECTS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90175 WHEN SHOWN THE NUMBERS 15, 16, AND 17 THE STUDENT WILL PLACE THE CORRESPONSING NUMBER OF OBJECTS NEXT TO THE APPROPRIATE NUMERAL WITH 100% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90301 GIVEN FIVE BLOCKS THE STUDENT WILL BE ABLE TO VERBALLY COUNT THEM CORRECTLY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90320 THE STUDENT WILL COUNT PICTURES NUMBERING 1-2 AND WRITE CORRECT NUMERAL FOR EACH SET BEING PRESENTED.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
90290	ROOT WORD PRACTICE	1	2.00	19- 7 TO 19- 7	**************

OBJECTIVE: 90458 STUDENT WILL COUNT 1 - 10 PICTURED OBJECTS AND WRITE CORRECT NUMERAL FOR EACH SET

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
90448	COUNTING/NUMERAL WRITING NOTEBOOK	2	1.00	13- 3 TO 13- 3	**************
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	2	1.00	13- 3 TO 13- 3	**************

OBJECTIVE: 90557 STUDENT WILL COUNT 1-15 PICTURED OBJECTS AND MATCH EACH SET WITH CORRECT NUMERAL

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
90448	COUNTING/NUMERAL WRITING NOTEBOOK	1	1.00	13- 3 TO 13- 3	**************

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          F1-03 (CONTINUED)

OBJECTIVE:  90557  (CONTINUED)
      TEST/TASK
00100  FREQUENCY OF OCCURANCE (SPECIFIED TIME)       1       1.00 13- 3 TO 13- 3  **************
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OBJECTIVE:  90616  THE STUDENT WILL BE ABLE TO RECOGNIZE AND RECITE THE NUMERALS
                   14-35.

                                    NO IMPLEMENTATION RECORD 1973-1974



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OBJECTIVE:  90725  GIVEN THE NUMBERS 1-20 THE STUDENT WILL VERBALLY STATE THE CORRECT
                   NAME FOR EACH WHETHER IN CORRECT OR RANDOM ORDER.

RESOURCE                                            NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                      TITLES                  OF USES  RATING      AGE             AGE
                                                             (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      TEST/TASK
00110  FREQUENCY COUNT (NO TIME)                       1       1.00  8- 5 TO  8- 5  **************
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SOURCE:  SUBURBAN UNIT



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OBJECTIVE:  90732  THE STUDENT WILL CORRECTLY COUNT THE MARKS HE MAKES ON PAPER

RESOURCE                                            NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                      TITLES                  OF USES  RATING      AGE             AGE
                                                             (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
04250  PROGRESSIONAL NUMBER CONCEPTS                   1       2.00  7- 3 TO  7- 3   6- 5 TO  6- 5
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OBJECTIVE: 90732 (CONTINUED)
05842 HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL 1 ***.** 7- 3 TO 7- 3 6- 5 TO 6- 5

CONTENT AREA: F1-04 EXPANDED NOTATION

SOURCE: HEATH

OBJECTIVE: 21151 WRITE 2-DIGIT NUMBERS IN STANDARD FORM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21191 GIVE EXPANDED FORM FOR NUMBERS TO 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21228 USE A PLACE-VALUE TABLE TO RECORD NUMBERS OF OBJECTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21311 WRITE NUMBERS TO 9,999 IN TABLE FORM AND EXPANDED FORM.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18061 EXPRESS 2-DIGIT NUMERALS IN EXPANDED FORM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18062 EXPRESS 3-DIGIT NUMERALS IN EXPANDED FORM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18063 GIVE THE RELATIONS BETWEEN MULTIPLES OF TEN.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18064 IDENTIFY THE PLACE VALUE OF THE DIGITS IN A 4-DIGIT NUMERAL.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01430	CUISENAIRE CUBES, SQUARES AND RODS	1	1.00	8- 0 TO 8- 0	8- 0 TO 8- 0

OBJECTIVE: 18317 (A,B) USE DIGITS TO WRITE NUMBERS TO MILLIONS SEPARATED INTO PERIODS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18319 (A-D) WRITE THE STANDARD NUMERAL FOR NUMBERS UNDER 10,000 EXPRESSED IN EXPANDED NOTATION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18320 (A-C) WRITE 2,3, AND 4-DIGIT NUMBERS IN EXPANDED NOTATION (INCLUDING NAMING HUNDREDS AS POWERS OF TEN)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18321 (D,E) WRITE THE RELATIONS OF POWERS OF TEN

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18322 (A-H) IDENTIFY PLACE VALUE AND TOTAL VALUE OF DIGITS IN A 9-DIGIT NUMERAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18323 (A,B) READ NUMBERS OF UP TO 9 DIGITS FROM AN ABACUS

NO IMPLEMENTATION RECORD 1973-1974

F1-04 (CONTINUED)

OBJECTIVE: 18324 (A-D) USE A NUMBER LINE TO ORDER NUMBERS WITH VARYING NUMBERS OF DIGITS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18332 (A,B) USE EXPANDED NOTATION TO EXPRESS A NUMBER IN ANOTHER NUMBER BASE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18351 (A,B) WRITE DECIMAL NUMERALS IN EXPANDED NOTATION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18394 (E-G) COMPLETE EXPANDED NOTATION SENTENCES INVOLVING EXPONENTS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-05 INEQUALITIES

SOURCE: COMPET

OBJECTIVE: 06309 DIFFERENTIATES BETWEEN ONE AND MANY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06310 DIFFERENTIATES BETWEEN ONE AND TWO ITEMS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: HEATH

OBJECTIVE: 21102 DETERMINE WHICH OF TWO SETS HAS MORE (FEWER) ELEMENTS BY PAIRING AS MANY ELEMENTS AS POSSIBLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21103 DETERMINE WHICH OF THREE SETS HAS THE MOST (FEWEST) ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21175 WRITE INEQUALITIES USING THE NUMBERS 0-10.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01212	ARITHMETIC STEP BY STEP, KIT A, SETS, LEVEL	1	2.00	9- 1 TO 9- 1	**************
01443	NUMERO-CUBES SET II	1	1.00	9- 1 TO 9- 1	**************
01570	CUBICAL COUNTING BLOCKS	2	1.00	8- 9 TO 11- 3	8- 4*TO* 8- 4
01578	FLANNEL BOARD FRACTIONAL PARTS	1	1.00	9- 1 TO 9- 1	**************
03912	ELEMENTARY SCHOOL MATHEMATICS, BOOK 1	1	1.00	9- 1 TO 9- 1	**************
05240	GREATER THAN/LESS THAN CHART	1	2.00	9- 1 TO 9- 1	**************
05275	KINESTHETIC NUMERAL CARDS & COUNTING DISCS	1	2.00	9- 1 TO 9- 1	**************

F1-05 (CONTINUED)

OBJECTIVE: 21234 WRITE SIMPLE INEQUALITIES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21310 WRITE SIMPLE INEQUALITIES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21379 WRITE SIMPLE INEQUALITIES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21437 COMPARE MANY FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IAMS

OBJECTIVE: 21001 GIVEN A PICTORIAL SET OF OBJECTS, POINT TO THE OBJECT THAT IS ASSOCIATED WITH THE FOLLOWING VERBALLY PRESENTED COMPARATIVE TERMS: SAME SIZE; LARGER, SMALLER; LARGEST, SMALLEST; LONGER, SHORTER; LONGEST, SHORTEST; TALLER, SHORTER; TALLEST, SHORTEST; HIGHER, LOWER; TALL, SHORT; HIGH, LOW; NEAR, FAR; LONG, SHORT; EARLY, LATE; FAST, SLOW; HOT, COLD; HEAVY, LIGHT; ALL, NONE, SOME; MANY, FEW; WARM, COOL; THICK, THIN; EMPTY, FULL; NARROW, WIDE; WHOLE, PART; MORE, LESS; SHORTEST, LONGEST, LATER, EARLIER; EARLIEST, LATEST; HIGHEST, LOWEST; HEAVIER, LIGHTER; JUST THE SAME; ALMOST ALIKE; BIG, LITTLE; BEGINNING, END; BEFORE, AFTER; NEXT; CLOSE, CLOSER; QUICKLY, SLOWLY; FASTER, SLOWER; FASTEST, SLOWEST; MOST, LEAST; TALLEST, SHORTEST; SHORTER, LONGER; HIGHEST, LOWEST; LARGE, SMALL; BIGGER, SMALLER; BIGGEST, SMALLEST; LARGEST; SMALLEST.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21043 GIVEN ANY 2 NUMBERS, EACH OF WHICH IS 100 OR LESS, WRITE THE APPROPRIATE SYMBOL FOR "LESS THAN", "EQUAL TO", OR "GREATER THAN" BETWEEN THE 2 NUMBERS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL 1	1	3.00	8- 2 TO 8- 2	6-11 TO 6-11

F1-05 (CONTINUED)

SOURCE: SRA

OBJECTIVE: 18059 USE INEQUALITY SIGNS TO COMPARE TWO 1-DIGIT, 2-DIGIT, OR 3-DIGIT NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18097 DETERMINE WHETHER TO USE LESS THAN, GREATER THAN, OR = TO COMPLETE ADDITION AND SUBTRACTION SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18318 (A-D) USE INEQUALITY SIGNS TO TELL WHICH NUMBER IS LARGER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18405 (A-F) INSERT LESS THAN, GREATER THAN, OR = SYMBOLS TO MAKE TRUE NUMBER SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - PENN STATE UNIV.

OBJECTIVE: 07146 VERBALLY IDENTIFIES WHICH OBJECT IS BIGGER

NO IMPLEMENTATION RECORD 1973-1974

F1-05 (CONTINUED)

OBJECTIVE: 07147 VERBALLY IDENTIFIES WHICH OBJECT THAT IS "LITTLER"

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-06 NUMBERS/MATCHING, WRITING, CONCEPT.

SOURCE: HEATH

OBJECTIVE: 21110 MATCH THE PROPER STANDARD NUMERALS WITH SETS OF FROM 1 TO 5 ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21111 ORDER THE NUMBERS 1 TO 5.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21115 MATCH THE PROPER STANDARD NUMERALS WITH SETS OF 6 OR FEWER ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21123 MATCH THE PROPER STANDARD NUMERALS WITH SETS OF 10 OR FEWER ELEMENTS.

OBJECTIVE: 21123 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04315	CUISENAIRE RODS	2	1.00	6- 0 TO 7- 6	4- 2 TO 5- 6
07697	FLEX-ED MATHMATICS PROGRAM	2	1.00	6- 0 TO 7- 6	4- 2 TO 5- 6
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	2	1.00	6- 0 TO 7- 6	4- 2 TO 5- 6

OBJECTIVE: 21151 WRITE 2-DIGIT NUMBERS IN STANDARD FORM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21190 READ AND WRITE NUMBERS TO 100.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04861	COUNTING FRAME	1	4.00	10- 4 TO 10- 4	7- 3 TO 7- 3
90285	POP STICK COUNTERS	1	1.00	10- 4 TO 10- 4	7- 3 TO 7- 3

OBJECTIVE: 21211 READ AND WRITE NUMBERS TO 1000.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21226 READ AND WRITE NUMBERS TO 999.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21232 READ AND WRITE NUMBERS TO 999,999.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21296 READ NUMBERS IN THE MILLIONS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8

OBJECTIVE: 21297 WRITE NUMBERS IN THE MILLIONS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8

OBJECTIVE: 21308 READ AND WRITE NUMBERS TO 999-999,999.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21378 READ AND WRITE NUMBERS UP TO 12-DIGIT NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21459 READ AND WRITE NUMBERS UP TO 12-DIGIT NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09493 GIVEN THE NAME OF A NUMERAL FROM 0 TO 30, THE CHILD CAN WRITE THE NUMERAL.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03419	GROOVY NUMERALS 0-9, MANUSCRIPT	2	2.00	6- 4 TO 7- 8	4- 6*TO* 4- 6
04140	MATCHMATES - NUMBER PAIRS	2	**1.00	6- 4 TO 7- 8	4- 6*TO* 4- 6
04315	CUISENAIRE RODS	2	1.50	6- 0 TO 7- 6	4- 2 TO 5- 6
04442	GREATER CLEVELAND MATHEMATICS PROGRAM,	1	1.00	9- 0 TO 9- 0	7- 3 TO 7- 3
05635	TRAIN-ING FUN WITH NUMBERS - BOOK 1	2	1.00	6- 9 TO 6- 9	4-11 TO 4-11
07667	INTO MATHEMATICS LABTEXT - BOOK 1	1	1.00	7- 2 TO 7- 2	**************
90284	FLASH CARDS	1	1.00	6- 9 TO 6- 9	4-11 TO 4-11
90496	NUMBER LINE	1	2.00	7- 2 TO 7- 2	**************
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	4	1.00	6- 4 TO 7- 2	4- 5 TO 5- 3

F1-06 (CONTINUED)

SOURCE: SRA

OBJECTIVE: 18050 USE DIGITS TO WRITE NAMES FOR 2-DIGIT AND 3-DIGIT NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18051 USE DIGITS TO WRITE NAMES FOR 4-DIGIT AND 5-DIGIT NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18052 USE WORDS TO WRITE NAMES FOR 2-DIGIT AND 3-DIGIT NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18053 USE WORDS TO WRITE NAMES FOR 4-DIGIT AND 5-DIGIT NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

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OBJECTIVE:  90036  GIVEN A SET OF PRE-READING LEVEL SCHEMATIC PICTURES, SOME OF
                   WHICH REPRESENT NUMERICAL GROUPINGS, STUDENT CORRECTLY MARKS THE
                   PICTURE(S) CONTAINING A SPECIFIED NUMBER OF PARTS OR THINGS.

                             NO IMPLEMENTATION RECORD 1973-1974



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OBJECTIVE:  90153  GIVEN THREE NUMBERS 1,2, AND 3 THE STUDENT WILL PUT THE
                   APPROPRIATE NUMBER OF OBJECTS UNDER THE NUMBER SYMBOL

RESOURCE                                      NUMBER   EFF    CHRONOLOGICAL      MENTAL
NUMBER                  TITLES                OF USES  RATING      AGE             AGE
                                                       (1=HI)  -1SD TO +1SD   -1SD TO +1SD
    TEST/TASK
00110 FREQUENCY COUNT (NO TIME)                  2      2.00   5- 2 TO  9- 0  **************
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OBJECTIVE:  90175  WHEN SHOWN THE NUMBERS 15, 16, AND 17 THE STUDENT WILL PLACE THE
                   CORRESPONSING NUMBER OF OBJECTS NEXT TO THE APPROPRIATE NUMERAL
                   WITH 100% ACCURACY.

RESOURCE                                      NUMBER   EFF    CHRONOLOGICAL      MENTAL
NUMBER                  TITLES                OF USES  RATING      AGE             AGE
                                                       (1=HI)  -1SD TO +1SD   -1SD TO +1SD
    MATERIALS
03303 PRIMARY CUT-OUTS (FLANNEL BOARD)           1      1.00   7- 8 TO  7- 8  **************
    TEST/TASK
00004 HEATH ELEMENTARY MATHEMATICS PROGRAM LEVEL 4 1    1.00   7- 8 TO  7- 8  **************
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OBJECTIVE: 90182 HAVING COUNTED PICTURES NUMBERING 1 - 3 THE STUDENT WILL WRITE THE CORRECT NUMERAL FOR EACH SET (NUMERAL) BEING PRESENTED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90320 THE STUDENT WILL COUNT PICTURES NUMBERING 1-2 AND WRITE CORRECT NUMERAL FOR EACH SET BEING PRESENTED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90557 STUDENT WILL COUNT 1-15 PICTURED OBJECTS AND MATCH EACH SET WITH CORRECT NUMERAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90564 THE LEARNER WILL READ AND WRITE THREE AND FOUR DIGIT NUMBERS UPON REQUEST

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07027	MOVING UP IN NUMBERS - BLUE UNIT - NUMBER SE	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8

OBJECTIVE: 90617 GIVEN THE NUMBERS 4,5,6,7,8,9,10 THE STUDENT PUT THE APPROPRIATE NUMBER OF OBJECTS UNDER THE NUMBER SYMBOL.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-07 NUMBER LINE

SOURCE: HEATH

OBJECTIVE: 21137 DRAW NUMBER LINE JUMPS FOR NUMBERS TO 10.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21138 DETERMINE, BY COUNTING, THE LENGTH OF A NUMBER LINE JUMP.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03215	FLANNEL BOARD CUT-OUTS	3	1.67	8-11 TO 10-11	5- 1 TO 8- 1
03287	STEPPING STONES - NUMERALS	3	1.33	8-11 TO 10-11	5- 1 TO 8- 1
06241	DESK TAPE NUMBER LINE (0-20)	3	2.00	8-11 TO 10-11	5- 1 TO 8- 1
98005	NUMBERLINE PRACTICE DITTOS	2	1.50	8-10 TO 9-10	5- 5 TO 8- 9

OBJECTIVE: 21178 DRAW NUMBER-LINE PICTURES FOR ADDITION AND SUBTRACTION EQUATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21365 USE MIXED NUMERALS TO LABEL POINTS ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21440 USE MIXED NUMERALS TO DESCRIBE SETS OF OBJECTS OR TO LABEL POINTS ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IAMS

OBJECTIVE: 21022 GIVEN A NUMBER LINE FROM 0 TO 10 AND ANY BOXED NUMERAL BETWEEN 1 AND 10, DRAW ONE BIG CURVE OR SEPARATE UNITARY CURVES ON THE NUMBER LINE STARTING AT 0 TO REPRESENT THE GIVEN NUMERAL.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	7- 4 TO 7- 4	**************
05842	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	7- 4 TO 7- 4	**************
07655	STRUCTURAL ARITHMETIC 1, UNIT BLOCKS	1	2.00	7- 4 TO 7- 4	**************

SOURCE: SRA

OBJECTIVE: 18084 WRITE MULTIPLICATION SENTENCES TO DESCRIBE MULTIPLICATION ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

F1-07 (CONTINUED)

OBJECTIVE: 18091 WRITE DIVISION SENTENCES TO DESCRIBE DIVISION ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18092 WRITE DIVISION SENTENCES TO DESCRIBE REPEATED SUBTRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18324 (A-D) USE A NUMBER LINE TO ORDER NUMBERS WITH VARYING NUMBERS OF DIGITS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18342 (A,B) ORDER FRACTIONS X/Y (X LESS THAN 10, Y LESS THAN 10, X/Y EQUAL TO OR LESS THAN 1), GIVEN A NUMBER LINE CONTAINING ALL THE POINTS TO BE ORDERED AND LABELS FOR ALTERNATE POINTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18361 ARRANGE POSITIVE AND NEGATIVE NUMBERS AS THEY WOULD APPEAR ON A NUMBER LINE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18362 MOVE A GIVEN NUMBER OF PLACES TO THE LEFT AND THEN TO THE RIGHT ALONG THE NUMBER LINE TO ARRIVE AT A POSITIVE OR NEGATIVE INTEGER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18370 (A,B) DESCRIBE THE LOCATION OF POSITIVE AND NEGATIVE INTEGERS IN RELATION TO ZERO ON THE NUMBER LINE

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: WESTERN UNIT

OBJECTIVE: 90688 THE STUDENT WILL USE A NUMBER LINE FOR SOLVING ADDITION AND SUBTRACTION PROBLEMS UP TO 10.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01482	PUPIL'S NUMBER LINE	1	2.00	6- 2 TO 8- 2	6-11 TO 6-11

CONTENT AREA: F1-08 NUMERAL RECOGNITION

SOURCE: COMPET

OBJECTIVE: 06313 RECOGNIZES NUMERALS UP TO NINE

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01401	MODERN MATHEMATICS, KINDERGARTEN PART 1	1	1.00	7- 2 TO 7- 2	**************
01571	FLANNEL BOARD NUMBERS	1	2.00	7- 2 TO 7- 2	**************
01650	DIAL THE FACTS 1-16 SPECIMEN SET	1	1.00	7- 3 TO 7- 3	**************
07145	LEVEL 2 - SUBTRACTION FACTS: KNOWN SUMS LESS	1	1.00	7- 3 TO 7- 3	**************
07667	INTO MATHEMATICS LABTEXT - BOOK 1	1	2.00	7- 2 TO 7- 2	**************
	METHODS				
52134	SELECTS PROPER NUMBER NAME	1	***.**	6- 9 TO 6- 9	6- 6 TO 6- 6

SOURCE: IDAHO TMR SKILLS ASSESSMENT

OBJECTIVE: 83192 THE STUDENT WILL IDENTIFY NUMBER SYMBOLS 1 TO 10

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52807	IDENTIFYING NUMBER SYMBOLS BY FLASH CARDS	1	1.00	11- 2 TO 11- 2	**************

SOURCE: IOX

OBJECTIVE: 09487 RECOGNITION OF NUMERALS: THE CHILD WILL BE ABLE TO RECOGNIZE, RECITE, WRITE, AND ORDER THE NUMERALS FROM 1 - 30.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03303	PRIMARY CUT-OUTS (FLANNEL BOARD)	2	**2.00	7- 4 TO 9- 8	**************
	TEST/TASK				
00056	NUMBERS 1-30	1	1.00	9- 0 TO 9- 0	7- 3 TO 7- 3

OBJECTIVE: 09488 GIVEN A SET OF CARDS WITH NUMERALS FROM 1 - 10 ON THEM, THE CHILD CAN MATCH EACH OF HIS CARDS TO THE SAME CARD IN ANOTHER SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09489 GIVEN A SET OF CARDS WITH NUMERALS FROM 1 - 10 ON THEM, THE CHILD WILL IDENTIFY EACH CARD AS IT IS REQUESTED BY NAME.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09490 GIVEN SANDPAPER SHAPES OF NUMERALS 0 THROUGH 9, THE CHILD WILL BE ABLE TO NAME THE NUMERAL BY FEELING IT WHILE HE IS BLINDFOLDED.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90459 WHEN SHOWN NUMERALS 1 - 10 ON INDIVIDUAL FLASHCARDS, STUDENT WILL NAME EACH NUMERAL

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03419	GROOVY NUMERALS 0-9, MANUSCRIPT	1	2.00	13- 3 TO 13- 3	**************
	METHODS				
53324	TRACING NUMERALS ON CHALKBOARD AND INDEX CAR	1	1.00	13- 3 TO 13- 3	**************
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	1	1.00	13- 3 TO 13- 3	**************

OBJECTIVE: 90462 WHEN SHOWN, IN RANDOM ORDER, NUMERALS 10 - 19 PRINTED ON CARDS STUDENT WILL NAME EACH NUMERAL

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01580	HUNDRED CHART	1	2.00	17- 7 TO 17- 7	**************
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	1	1.00	17- 7 TO 17- 7	**************

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OBJECTIVE:  90556  WHEN SHOWN NUMERALS 1-15 ON INDIVIDUAL FLASHCARDS STUDENT WILL
                   NAME EACH NUMERAL

RESOURCE                                              NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                         TITLES                 OF USES  RATING      AGE              AGE
                                                               (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      TEST/TASK
00100  FREQUENCY OF OCCURANCE (SPECIFIED TIME)           1      1.00 13- 3 TO 13- 3   **************
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OBJECTIVE:  90585  GIVEN A PAPER WITH THE NUMBERS 1-12 PRINTED IN IRREGULAR ORDER,
                   THE LEARNER WILL POINT TO THE NUMBER THAT THE TUTOR STATES.

RESOURCE                                              NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                         TITLES                 OF USES  RATING      AGE              AGE
                                                               (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
04968  UNDERSTANDING NUMBERS FOR BEGINNERS, FLASHCA   1        1.00  7- 9 TO  7- 9   5- 8 TO  5- 8
07146  LEVEL 1 - ADDITION FACTS: SUMS LESS THAN TEN   1        1.00  7- 9 TO  7- 9   5- 8 TO  5- 8
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OBJECTIVE:  90587  GIVEN THE NUMBERS 30-50 IN RANDOM ORDER ON A PRINTED SHEET,
                   THE STUDENT WILL SAY ALOUD WHAT EACH NUMBER IS WHEN IT IS
                   POINTED TO BY THE TUTOR.

RESOURCE                                              NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                         TITLES                 OF USES  RATING      AGE              AGE
                                                               (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
07027  MOVING UP IN NUMBERS - BLUE UNIT - NUMBER SE   1        3.00  7- 9 TO  7- 9   5- 8 TO  5- 8
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OBJECTIVE: 90587 (CONTINUED)

07525	COUNTING RODS	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
90284	FLASH CARDS	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8

OBJECTIVE: 90616 THE STUDENT WILL BE ABLE TO RECOGNIZE AND RECITE THE NUMERALS 14-35.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	7- 8 TO 7- 8	**************

CONTENT AREA: F1-09 NUMBER SEQUENCE

SOURCE: HEATH

OBJECTIVE: 21133 ORDER THE NUMBERS 0-10

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01201	ARITHMETIC STEP BY STEP, KIT A, COUNTING, LE	2	2.00	6-10 TO 8- 2	2-10 TO 6- 6

OBJECTIVE: 21150 ORDER THE NUMBERS 0-100.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01570	CUBICAL COUNTING BLOCKS	1	2.00	11- 0 TO 11- 0	5- 6 TO 5- 6
01602	BEGINNINGS IN MASTERING MATHEMATICS, 1ST GR.	1	2.00	11- 0 TO 11- 0	5- 6 TO 5- 6
90285	POP STICK COUNTERS	1	2.00	11- 0 TO 11- 0	5- 6 TO 5- 6

OBJECTIVE: 21192 ORDER THE NUMBERS 0-100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21212 ORDER THE NUMBERS FROM 1 TO 1000.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21227 ORDER THE NUMBERS TO 999.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01313	ARITHMETIC STEP BY STEP, KIT B, PLACE VALUE,	4	2.00	7- 8 TO 12- 2	5- 0*TO* 8- 6

OBJECTIVE: 21233 ORDER NUMBERS TO 999,999.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21309 ORDER THE NUMBERS TO 999,999,999.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21458 ORDER NUMBERS WRITTEN IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IAMS

OBJECTIVE: 21000 GIVEN A PICTORIAL SET OF NONIDENTICAL OBJECTS, POINT TO THE OBJECT THAT IS ASSOCIATED WITH A VERBALLY PRESENTED POSITIONAL TERM RELATIVE TO A GIVEN REFERENCE OBJECT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21016 GIVEN THE PRINTED NUMERALS 6 THROUGH 10 WITH ANY ONE OF THE NUMERALS MISSING, WRITE IN THE MISSING NUMERAL.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01404	MODERN MATHEMATICS, GRADE 1, PART 1	1	1.00	7- 2 TO 7- 2	**************

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OBJECTIVE:  21016  (CONTINUED)
06033  MODULE 1: INITIAL EXPERIENCES - COLOR BLOCKS  1      1.00  7- 2 TO  7- 2  **************
07667  INTO MATHEMATICS LABTEXT - BOOK 1             1      1.00  7- 2 TO  7- 2  **************
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OBJECTIVE: 21017 GIVEN A SEQUENCE OF BOXED SETS OF IDENTICAL GEOMETRIC SHAPES THAT REPRESENT THE NUMBER CONCEPTS IN ORDER FROM 1 TO 5, WITH ONE OF THE SETS OF SHAPES MISSING, DRAW THE APPROPRIATE NUMBER OF SHAPES IN THE EMPTY BOX.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21018 GIVEN THE PRINTED NUMERALS 1 THROUGH 5 WITH ANY ONE OF THE NUMERALS MISSING, WRITE IN THE MISSING NUMERAL.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21019 GIVEN A SEQUENCE OF BOXED SETS OF IDENTICAL GEOMETRIC SHAPES THAT REPRESENT THE NUMBER CONCEPTS IN ORDER FROM 6 TO 10, WITH ONE OF THE SETS OF SHAPES MISSING, DRAW THE APPROPRIATE NUMBER OF SHAPES IN THE EMPTY BOX.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21038 GIVEN ANY DECADE OF PRINTED NUMERALS 11 THROUGH 100 WITH ANY ONE OF THE NUMERALS MISSING, WRITE IN THE MISSING NUMERAL.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09491 GIVEN THE NUMERALS 0 - 30, THE CHILD CAN PLACE THEM IN NUMERICAL ORDER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01405	MODERN MATHEMATICS, GRADE 1, PART 2	1	1.00	6-11 TO 6-11	**************
90284	FLASH CARDS	2	2.00	7- 6 TO 7- 8	7- 0 TO 7- 2

SOURCE: SRA

OBJECTIVE: 18046 COMPLETE A SERIES OF SEVEN CONSECUTIVE 2-DIGIT NUMBERS, GIVEN THREE NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18047 COMPLETE A SERIES OF SEVEN CONSECUTIVE 3-DIGIT NUMBERS, GIVEN THREE NUMBERS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01489	FLASH CARDS - DIVISION	1	1.00	10- 3 TO 10- 3	**************
04189	PLDK, LEVEL 3 MINNIE BIRD PUPPET	1	1.00	10-10 TO 10-10	8- 4 TO 8- 4

OBJECTIVE: 18048 COMPLETE A SERIES OF SEVEN NUMBERS, SKIP-COUNTING BY 5 OR 10.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01430	CUISENAIRE CUBES, SQUARES AND RODS	1	2.00	8- 6 TO 8- 6	7-11 TO 7-11
04647	PEGMATH GROUPING KIT	1	1.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07092	TOUCH TO LEARN	1	2.00	8- 6 TO 8- 6	7-11 TO 7-11
07525	COUNTING RODS	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8

OBJECTIVE: 18049 COMPLETE A SERIES OF SEVEN NUMBERS, SKIP-COUNTING BY 2 OR 3.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01430	CUISENAIRE CUBES, SQUARES AND RODS	1	2.00	9- 4 TO 9- 4	**************
07092	TOUCH TO LEARN	1	2.00	9- 4 TO 9- 4	**************

OBJECTIVE: 18057 GIVE THE NUMBER OR NUMBERS BETWEEN TWO GIVEN 1-DIGIT, 2-DIGIT, OR 3-DIGIT NUMBERS.

OBJECTIVE: 18057 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01243	ARITHMETIC STEP BY STEP, KIT A, RELATIONSHIP	1	***.**	8- 1 TO 8- 1	8- 7 TO 8- 7
01320	ARITHMETIC STEP BY STEP, KIT B, ADDITION	1	1.00	8- 1 TO 8- 1	8- 7 TO 8- 7

OBJECTIVE: 18058 GIVE THE NUMBERS JUST BEFORE AND JUST AFTER A GIVEN 1-DIGIT, 2-DIGIT, OR 3-DIGIT NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01301	ARITHMETIC STEP BY STEP, KIT B, COUNTING, LE	1	***.**	9- 6 TO 9- 6	9- 3 TO 9- 3
01430	CUISENAIRE CUBES, SQUARES AND RODS	1	3.00	8- 6 TO 8- 6	7-11 TO 7-11

OBJECTIVE: 18372 (A,B) RECOGNIZE A PATTERN IN A SEQUENCE OF NEGATIVE INTEGERS AND GIVE THE NEXT TWO NUMBERS IN THE SEQUENCE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18375 (B) COMPLETE A NUMBER SEQUENCE

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA.

OBJECTIVE: 18056 GIVE THE NUMBER THAT IS ONE LESS THAN A GIVEN 1-DIGIT, 2-DIGIT, OR 3-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90116 GIVEN THE NUMERALS AND AN EMPTY CLOCK FACE, THE STUDENT WILL BE ABLE TO CORRECTLY SEQUENCE THE NUMBERS AROUND THE FACE OF THE CLOCK.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-11 ONE TO ONE RELATIONSHIP

SOURCE: HEATH

OBJECTIVE: 21101 INDICATE A ONE-TO-ONE CORRESPONDENCE BETWEEN SETS BY PAIRING ELEMENTS FROM THE SETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21126 INDICATE A ONE-TO-ONE CORRESPONDENCE BETWEEN TWO SETS BY PAIRING ELEMENTS FROM THE SETS.

NO IMPLEMENTATION RECORD 1973-1974

F1-11 (CONTINUED)

OBJECTIVE: 21127 DETERMINE WHICH OF TWO SETS HAS MORE (FEWER) ELEMENTS BY PAIRING AS MANY ELEMENTS AS POSSIBLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21128 DETERMINE WHICH OF THREE SETS HAS THE MOST (FEWEST) ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90320 THE STUDENT WILL COUNT PICTURES NUMBERING 1-2 AND WRITE CORRECT NUMERAL FOR EACH SET BEING PRESENTED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90617 GIVEN THE NUMBERS 4,5,6,7,8,9,10 THE STUDENT PUT THE APPROPRIATE NUMBER OF OBJECTS UNDER THE NUMBER SYMBOL.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-12 ORDINAL CONCEPTS

SOURCE: HEATH

OBJECTIVE: 21118 POINT OUT THE FIRST, MIDDLE, AND LAST ELEMENTS IN AN ORDERED SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21176 INDICATE WHICH ELEMENT IN AN ORDERED SET IS FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, SEVENTH, EIGHTH, NINTH, OR TENTH.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 4 TO 11- 4	9- 2 TO 9- 2

SOURCE: IAMS

OBJECTIVE: 21013 GIVEN A SET OF 5 IDENTICAL OBJECTS FACING TO THE LEFT, POINT TO THE OBJECT THAT REPRESENTS SOME ORDINAL POSITION BETWEEN FIRST AND FIFTH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21035 GIVEN A SET OF 10 IDENTICAL OBJECTS FACING TO THE LEFT, POINT TO THE OBJECT THAT REPRESENTS SOME ORDINAL POSITION BETWEEN SIXTH AND TENTH.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05838	HEATH ELEMENTARY MATHEMATICS PROGRAM - KINDE	1	1.00	6-11 TO 6-11	7- 4 TO 7- 4

SOURCE: IOX

OBJECTIVE: 09494 ORDINAL NUMBERS: GIVEN OBJECTS IN ORDER (IN LINE), THE CHILD WILL BE ABLE TO IDENTIFY THE POSITION OF A SPECIFIED OBJECT IN RELATION TO A GIVEN REFERENCE POINT; OR IDENTIFY THE OBJECT, GIVEN ITS POSITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09495 GIVEN A SET OF OBJECTS IN A LINE, THE CHILD CAN TELL THE POSITION OF A SPECIFIED OBJECT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09496 GIVEN THE POSITION OF A SPECIFIED OBJECT IN A LINE OF OBJECTS, THE CHILD WILL BE ABLE TO LOCATE THE SPECIFIED OBJECT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01200	ARITHMETIC STEP BY STEP, KIT A, COUNTING	1	2.00	7- 1 TO 7- 1	6-11 TO 6-11
90384	NUMERAL WORD RECOGNITION POSTERS	1	2.00	7- 1 TO 7- 1	6-11 TO 6-11

SOURCE: SRA

OBJECTIVE: 18054 MATCH ORDINAL NUMBERS FIRST THROUGH TENTH WITH OBJECTS IN A LINE.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01203	ARITHMETIC STEP BY STEP, KIT A, COUNTING, LE	1	3.00	7- 1 TO 7- 1	6-11 TO 6-11
90385	ORDINAL/CARDINAL NUMBER WORDS	1	2.00	7- 1 TO 7- 1	6-11 TO 6-11

SOURCE: RURAL UNIT

OBJECTIVE: 90558 THE LEARNER WILL MARK THE PICTURED OBJECT, AS THEY NAMED, FIRST SECOND OR LAST

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04329	AUDITORY MEMORY TAPES	1	1.00	12- 8 TO 12- 8	**************
04338	AUDITORY IMAGERY SPIRIT MASTERS	1	1.00	12- 8 TO 12- 8	**************
07670	AUDITORY PERCEPTION TRAINING PROGRAM MEMORY	1	1.00	6- 4 TO 6- 4	5- 3 TO 5- 3

CONTENT AREA: F1-13 PLACE VALUE

SOURCE: IAMS

OBJECTIVE: 21037 GIVEN ANY 2-DIGIT NUMBER FROM 10 TO 99, WRITE HOW MANY TENS AND HOW MANY ONES ARE IN THE NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01570	CUBICAL COUNTING BLOCKS	1	***.**	10- 1 TO 10- 1	9- 6 TO 9- 6
05341	PLACE VALUE - EXPANDED NOTATION	1	1.00	7- 6 TO 7- 6	8-10 TO 8-10

SOURCE: SRA

OBJECTIVE: 18060 TELL HOW MANY GROUPS OF 10 OR 100 COULD BE MADE FROM A GIVEN NUMBER OF STICKS, AND TELL HOW MANY WOULD BE LEFT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01511	JUDY MINI-CLOCKS	1	2.00	8-10 TO 8-10	9- 2 TO 9- 2
03425	NUMBER RODS	1	***.**	10- 1 TO 10- 1	9- 6 TO 9- 6
90307	PLACE VALUE FLASHCARDS	1	1.00	8-10 TO 8-10	9- 2 TO 9- 2

OBJECTIVE: 18350 (A-D) DESCRIBE PLACE VALUE IN A DECIMAL NUMERAL UP TO 4 PLACES TO THE RIGHT OF THE DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18354 (A-D) COMPARE DECIMALS WITH VARYING NUMBERS OF DIGITS TO THE RIGHT OF THE DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUBURBAN UNIT

OBJECTIVE: 90304 GIVEN A ONE TO FIVE-DIGIT NUMBER, THE STUDENT WILL BE ABLE TO WRITE HOW MANY ONES, TENS, HUNDREDS, THOUSANDS, TEN THOUSANDS ARE IN THAT NUMBER

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01313	ARITHMETIC STEP BY STEP, KIT B, PLACE VALUE,	1	1.00	11- 0 TO 11- 0	11- 1 TO 11- 1
01513	JUDY PLACE VALUE PEG TRAY	1	1.00	11- 0 TO 11- 0	11- 1 TO 11- 1
90286	EVERYTHING BOARD	1	1.00	11- 0 TO 11- 0	11- 1 TO 11- 1

CONTENT AREA: F1-14 ROMAN, OTHER NUMERALS

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SOURCE:  HEATH


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OBJECTIVE:  21380  READ AND WRITE SOME ROMAN NUMERALS.

RESOURCE                                          NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                  TITLES                    OF USES  RATING      AGE              AGE
                                                           (1=HI)  -1SD TO +1SD    -1SD TO +1SD
     MATERIALS
05849  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  1       1.00 11- 4 TO 11- 4   9- 2 TO  9- 2
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SOURCE:  SRA


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OBJECTIVE:  18325  (A,B) TRANSLATE ROMAN NUMERALS TO ARABIC, USING I,V, AND X ONLY

RESOURCE                                          NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                  TITLES                    OF USES  RATING      AGE              AGE
                                                           (1=HI)  -1SD TO +1SD    -1SD TC +1SD
     MATERIALS
01456  TIME AND TELLING TIME                         1       2.00  9- 6 TO  9- 5   **************
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OBJECTIVE:  18326  (C,D) TRANSLATE ROMAN NUMERALS TO ARABIC, USING I,V,X,L,C, AND M

                         NO IMPLEMENTATION RECORD 1973-1974
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OBJECTIVE: 18327 (A,B) TRANSLATE 1-DIGIT AND 2-DIGIT ARABIC NUMERALS TO ROMAN NUMERALS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18328 (C,D) TRANSLATE ARABIC NUMERALS OF UP TO 4 DIGITS TO ROMAN NUMERALS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-15 ROUNDING OFF

SOURCE: HEATH

OBJECTIVE: 21519 ROUND NUMBERS TO THE NEAREST TENTH, ONE, TEN, OR HUNDRED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21520 USE ROUNDING IN ESTIMATING SOME SUMS, DIFFERENCES, AND PRODUCTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21522 USE ROUNDING IN ESTIMATING SOME QUOTIENTS.

NO IMPLEMENTATION RECORD 1973-1974

F1-15 (CONTINUED)

SOURCE: SRA

OBJECTIVE: 18105 ROUND NUMBERS TO THE NEAREST TEN OR HUNDRED AND ESTIMATE ANSWERS TO STORY PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18422 (A) ROUND OFF NUMBERS TO ESTIMATE AN ANSWER TO A PROBLEM

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-16 SETS

SOURCE: HEATH

OBJECTIVE: 21101 INDICATE A ONE-TO-ONE CORRESPONDENCE BETWEEN SETS BY PAIRING ELEMENTS FROM THE SETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21102 DETERMINE WHICH OF TWO SETS HAS MORE (FEWER) ELEMENTS BY PAIRING AS MANY ELEMENTS AS POSSIBLE.

NO IMPLEMENTATION RECORD 1973-1974

F1-16 (CONTINUED)

OBJECTIVE: 21103 DETERMINE WHICH OF THREE SETS HAS THE MOST (FEWEST) ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21110 MATCH THE PROPER STANDARD NUMERALS WITH SETS OF FROM 1 TO 5 ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21113 DRAW SETS OF FROM 1 TO 5 ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21114 COUNT THE ELEMENTS OF SETS HAVING 6 OR FEWER ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21115 MATCH THE PROPER STANDARD NUMERALS WITH SETS OF 6 OR FEWER ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21117 DRAW SETS OF FROM 1 TO 6 OBJECTS.

NO IMPLEMENTATION RECORD 1973-1974

F1-16 (CONTINUED)

OBJECTIVE: 21121 IDENTIFY ONE HALF OF A SET CONTAINING AN EVEN NUMBER OF ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21122 COUNT THE ELEMENTS OF SETS HAVING 10 OR FEWER ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21123 MATCH THE PROPER STANDARD NUMERALS WITH SETS OF 10 OR FEWER ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21125 DRAW SETS OF FROM 1 TO 10 OBJECTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21126 INDICATE A ONE-TO-ONE CORRESPONDENCE BETWEEN TWO SETS BY PAIRING ELEMENTS FROM THE SETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21127 DETERMINE WHICH OF TWO SETS HAS MORE (FEWER) ELEMENTS BY PAIRING AS MANY ELEMENTS AS POSSIBLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21128 DETERMINE WHICH OF THREE SETS HAS THE MOST (FEWEST) ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21129 COUNT THE ELEMENTS IN SETS WITH 1,2,3,4, OR 5 ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21130 CONSTRUCT, BY DRAWING ELEMENTS, SETS WITH 1,2,3,4, OR 5 ELEMENTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01201	ARITHMETIC STEP BY STEP, KIT A, COUNTING, LE	2	2.00	6-10 TO 8- 2	2-10 TO 6- 6

OBJECTIVE: 21132 COUNT THE ELEMENTS IN SETS WITH UP TO 10 ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21134 DISPLAY, BY DRAWING ELEMENTS, SETS WITH A GIVEN NUMBER OF OBJECTS UP TO 10.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21158 COMPARE TWO SETS BY SUBTRACTION.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01210	ARITHMETIC STEP BY STEP, KIT A, SETS	1	1.00	8- 0 TO 8- 0	9- 6 TO 9- 6
01212	ARITHMETIC STEP BY STEP, KIT A, SETS, LEVEL	1	1.00	8- 0 TO 8- 0	9- 6 TO 9- 6
01213	ARITHMETIC STEP BY STEP, KIT A, SETS, LEVEL	1	1.00	8- 0 TO 8- 0	9- 6 TO 9- 6
01301	ARITHMETIC STEP BY STEP, KIT B, COUNTING, LE	1	1.00	8- 0 TO 8- 0	9- 6 TO 9- 6
01302	ARITHMETIC STEP BY STEP, KIT B, COUNTING, LE	1	1.00	8- 0 TO 8- 0	9- 6 TO 9- 6
01303	ARITHMETIC STEP BY STEP, KIT B, COUNTING, LE	1	1.00	8- 0 TO 8- 0	9- 6 TO 9- 6
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.00	9-10 TO 11- 8	9- 1 TO 9- 7
05840	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	11- 4 TO 11- 4	9- 2 TO 9- 2

OBJECTIVE: 21162 SELECT FROM AMONG SEVERAL SETS THOSE THAT HAVE BEEN DIVIDED INTO HALVES, THIRDS, OR FOURTHS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21174 COUNT THE ELEMENTS OF SETS CONTAINING UP TO 10 ELEMENTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	11- 4 TO 11- 4	9- 2 TO 9- 2

F1-16 (CONTINUED)

OBJECTIVE: 21176 INDICATE WHICH ELEMENT IN AN ORDERED SET IS FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, SEVENTH, EIGHTH, NINTH, OR TENTH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21425 LIST THE ELEMENTS OF THE INTERSECTION OF A PAIR OF FINITE SETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 2[illegible]40 USE MIXED NUMERALS TO DESCRIBE SETS OF OBJECTS OR TO LABEL POINTS ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21463 DETERMINE IF A FIRST SET IS A SUBSET OF A SECOND SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21464 LIST THE ELEMENTS IN THE UNION OF TWO SETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21465 LIST THE ELEMENTS IN THE INTERSECTION OF TWO SETS.

NO IMPLEMENTATION RECORD 1973-1974

F1-16 (CONTINUED)

SOURCE: IAMS

OBJECTIVE: 21008 GIVEN A MIXED ARRAY OF 12 GEOMETRIC SHAPES 4 OF WHICH BELONG TO THE SAME SET AND EACH OF THE OTHER 8 OBJECTS BEING UNITARY SETS UNTO THEMSELVES, MARK EACH OF THE 4 COMMON SET ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21010 GIVEN 2 DIFFERENT SETS OF GEOMETRIC SHAPES, EACH SET WITH UP TO 4 ELEMENTS, EACH SET ENCIRCLED, AND LINES DRAWN BETWEEN ELEMENTS OF THE 2 SETS, POINT TO THE SET THAT HAS THE MOST ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21011 GIVEN A PRINTED NUMERAL BETWEEN 1 AND 5 AND 3 NONEQUIVALENT SETS OF GEOMETRIC SHAPES, POINT TO THE SET THAT REPRESENTS THE NUMERAL.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03303	PRIMARY CUT-OUTS (FLANNEL BOARD)	1	1.00	9- 4 TO 9- 4	**************
04419	FIRST EXPERIENCES WITH CONSONANTS	1	1.00	6- 0 TO 6- 0	**************
05068	NUMBER CONCEPTS, LEVEL 2	1	1.00	6- 0 TO 6- 0	**************
	METHODS				
52247	ELICITING CORRECT CONSONANT SOUNDS FOR S,T,P	1	***.**	9- 4 TO 9- 4	**************

OBJECTIVE: 21012 GIVEN A PICTORIAL SET OF FROM 1 TO 5 LINCOLN PENNIES, WRITE THE AMOUNT OF MONEY IN NUMERICAL FORM WITH PROPER LABELING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21013 GIVEN A SET OF 5 IDENTICAL OBJECTS FACING TO THE LEFT, POINT TO THE OBJECT THAT REPRESENTS SOME ORDINAL POSITION BETWEEN FIRST AND FIFTH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21014 GIVEN 3 ENCIRCLED SETS OF GEOMETRIC OBJECTS, ONE OF WHICH IS EMPTY, EACH SET CONTAINING NO MORE THAN 5 OBJECTS, WRITE THE NUMBER THAT GOES WITH EACH SET.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05068	NUMBER CONCEPTS, LEVEL 2	1	1.00	6- 0 TO 6- 0	**************

OBJECTIVE: 21015 GIVEN A PRINTED NUMERAL BETWEEN 6 AND 10 AND 3 NONEQUIVALENT SETS OF GEOMETRIC SHAPES, POINT TO THE SET THAT REPRESENTS THE NUMERAL.

OBJECTIVE: 21015 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05068	NUMBER CONCEPTS, LEVEL 2	1	1.00	6- 0 TO 6- 0	**************

OBJECTIVE: 21017 GIVEN A SEQUENCE OF BOXED SETS OF IDENTICAL GEOMETRIC SHAPES THAT REPRESENT THE NUMBER CONCEPTS IN ORDER FROM 1 TO 5, WITH ONE OF THE SETS OF SHAPES MISSING, DRAW THE APPROPRIATE NUMBER OF SHAPES IN THE EMPTY BOX.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21019 GIVEN A SEQUENCE OF BOXED SETS OF IDENTICAL GEOMETRIC SHAPES THAT REPRESENT THE NUMBER CONCEPTS IN ORDER FROM 6 TO 10, WITH ONE OF THE SETS OF SHAPES MISSING, DRAW THE APPROPRIATE NUMBER OF SHAPES IN THE EMPTY BOX.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21020 GIVEN A SET OF FROM 1 TO 9 IDENTICAL GEOMETRIC SHAPES IN A BOX, DRAW AN ADDITIONAL SHAPE AND WRITE THE NUMBER REPRESENTED BY THE TOTAL SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21021 GIVEN A SET OF FROM 1 TO 10 IDENTICAL GEOMETRIC SHAPES IN A BOX, CROSS OUT ONE ELEMENT AND WRITE THE NUMBER REPRESENTED BY THE NEW SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21023 GIVEN 2 SIMILAR SETS OF GEOMETRIC SHAPES, EACH SET WITH UP TO 10 ELEMENTS, EACH SET ENCIRCLED AND A SET OF 3 RELATIONAL SYMBOLS, WRITE THE NUMBER REPRESENTED BY EACH SET AND ENCIRCLE THE APPROPRIATE RELATIONAL SYMBOL.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09502 SETS: GIVEN SETS OF OBJECTS, THE CHILD WILL BE ABLE TO (1) INDICATE THE NUMBER OF OBJECTS IN A SET, (2) ORDER SETS ACCORDING TO THE NUMBER OF ELEMENTS (3) COMBINE TWO OR MORE SETS TO FORM A NEW SET, (4) DIVIDE A SET INTO SUBSETS, (5) DECIDE WHETHER TWO SETS ARE EQUIVALENT (HAVE SOME NUMBER OF ELEMENTS THAT ARE EQUAL OR IDENTICAL).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09503 THE CHILD WILL DEMONSTRATE UNDERSTANDING OF THE CONCEPT "SET" AND "ELEMENT OF (MEMBER OF, OBJECT IN) A SET" BY (A) BEING ABLE TO DEFINE THE TERM "SET" (B) AND BY BEING ABLE TO GIVE EXAMPLES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09504 GIVEN A SET, THE CHILD WILL COUNT THE NUMBER OF ELEMENTS (OBJECTS) IN THE SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09505 GIVEN VARIOUS SETS, THE CHILD WILL MATCH THE SETS TO THE NUMBER WHICH TELLS HOW MANY ELEMENTS (OBJECTS) ARE IN THE SET. CONVERSELY, GIVEN A NUMBER, N, THE CHILD WILL FIND A SET WHICH CONTAINS N ELEMENTS (OBJECTS).

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
90384	NUMERAL WORD RECOGNITION POSTERS	3	**1.00	7- 5 TO 8- 1	6-10 TO 7- 2

OBJECTIVE: 09506 GIVEN TWO OR MORE SETS, THE CHILD WILL BE ABLE TO IDENTIFY WHETHER THE TWO SETS ARE EQUIVALENT (NOT EQUAL IN NUMBER). (NOTE: TWO SETS ARE EQUIVALENT IF THEY CONTAIN THE SAME NUMBER OF ELEMENTS (OBJECTS).) TWO SETS ARE EQUAL ONLY IF THEY CONTAIN EXACTLY THE SAME ELEMENTS (OBJECTS).

NO IMPLEMENTATION RECORD 1973-1974

F1-16 (CONTINUED)

OBJECTIVE: 09507 GIVEN TWO OR MORE SETS, THE CHILD CAN ORDER THEM ACCORDING TO THE NUMBER OF ELEMENTS (OBJECTS) THEY CONTAIN, AND SAY WHICH HAS THE MOST OR LEAST ELEMENTS (OBJECTS).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09508 GIVEN TWO OR MORE SETS, THE CHILD CAN COMBINE THE SETS TO FORM A NEW SET, AND TELL HOW MANY ELEMENTS (OBJECTS) ARE IN THE NEW SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09509 GIVEN A SET, THE CHILD CAN MAKE ONE OR MORE SUBSETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09510 GIVEN A SET CONTAINING TWO OR MORE ELEMENTS, THE CHILD WILL BE ABLE TO DIVIDE THE SET INTO TWO DISJOINTED SETS (I.E., TWO SETS WITH NO ELEMENTS IN COMMON) WHOSE UNION IS THE WHOLE SET (I.E., THE TWO SETS ADDED TOGETHER GIVE THE ORIGINAL SET).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09511 GIVEN A SET CONTAINING N X M ELEMENTS (OBJECTS), THE CHILD CAN DIVIDE IT INTO N SUBSETS CONTAINING M ELEMENTS (OBJECTS).

NO IMPLEMENTATION RECORD 1973-1974

F1-16 (CONTINUED)

SOURCE: SRA

OBJECTIVE: 18041 IDENTIFY THE SET THAT HAS THE SAME NUMBER OF OBJECTS AS A GIVEN SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18042 WRITE THE NUMERAL FOR A SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18043 WRITE THE NUMERAL FOR AN EMPTY SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18044 MATCH EACH OBJECT IN ONE SET WITH ONE OBJECT IN A LARGER SET AND TELL HOW MANY MORE OBJECTS THERE ARE IN THE LARGER SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18045 TELL WHICH OF TWO SETS HAS THE LARGER NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18090 WRITE DIVISION SENTENCES TO DESCRIBE DIVISION OF SETS INTO EQUIVALENT SUBSETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18329 (A-C) REGROUP A SET INTO SUBSETS TO DESCRIBE A NUMBER IN ANOTHER NUMBER BASE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18395 (A-C) MATCH A NUMBER SENTENCE TO THE PICTURED SET OR ARRAY IT DESCRIBES

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA.

OBJECTIVE: 18083 WRITE MULTIPLICATION SENTENCES TO DESCRIBE THE JOINING OF EQUIVALENT SETS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 99036 THE STUDENT WILL BE ABLE TO DRAW THE CORRECT NUMBER OF ITEMS IN RESPONSE TO THE STATEMENT MAKE 1 (2,3, OR 4) MORE THAN 4 OR MAKE A GIVEN SET 1,2,3, OR 4 ITEMS LESS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90458 STUDENT WILL COUNT 1 - 10 PICTURED OBJECTS AND WRITE CORRECT NUMERAL FOR EACH SET

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90617 GIVEN THE NUMBERS 4,5,6,7,8,9,10 THE STUDENT PUT THE APPROPRIATE NUMBER OF OBJECTS UNDER THE NUMBER SYMBOL.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SU

OBJECTIVE: 99030 THE STUDENT WILL BE ABLE TO MAKE SETS WITH ONE MORE OR ONE FEWER ELEMENTS THAN GIVEN SET

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 99031 THE STUDENT WILL BE ABLE TO CHANGE THE NUMBER OF ELEMENTS IN A SET BY SUBTRACTING ELEMENTS FROM A GIVEN SET

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 99032 THE STUDENT WILL BE ABLE TO CHANGE THE NUMBER OF ELEMENTS IN A SET BY ADDING ELEMENTS TO A GIVEN SET

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-17 SYMBOLS/MATH

SOURCE: SRA

OBJECTIVE: 18099 DETERMINE WHETHER TO USE + OR - TO COMPLETE NUMBER SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18100 DETERMINE WHETHER TO USE MULTIPLY OR DIVIDE SIGNS TO COMPLETE NUMBER SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - PENN STATE UNIV.

OBJECTIVE: 07006 SITS ALONE FOR 5 MINUTE PERIOD WITH REMOVAL OF SUPPORTIVE APPARATUS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-18 NEGATIVE NUMBERS

SOURCE: HEATH

OBJECTIVE: 21511 GIVE THE RECIPROCAL OF ANY NONZERO NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

F1-18 (CONTINUED)

OBJECTIVE: 21543 GIVE THE OPPOSITE OF ANY INTEGER.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18361 ARRANGE POSITIVE AND NEGATIVE NUMBERS AS THEY WOULD APPEAR ON A NUMBER LINE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18362 MOVE A GIVEN NUMBER OF PLACES TO THE LEFT AND THEN TO THE RIGHT ALONG THE NUMBER LINE TO ARRIVE AT A POSITIVE OR NEGATIVE INTEGER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18363 (A) READ INFORMATION FROM A CHART TO COMPUTE POSITIVE AND NEGATIVE NUMBERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18364 (B) USE A NEGATIVE NUMBER TO DESCRIBE A DEFICIT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18365 (A-D) ORDER POSITIVE AND NEGATIVE INTEGERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18366 (A-D) USE NEGATIVE INTEGERS TO DESCRIBE FEET BELOW SEA LEVEL, POINTS "IN THE HOLE," YARDAGE LOST, AND DEGREES BELOW ZERO

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18367 (A,B) ADD TWO POSITIVE OR TWO NEGATIVE INTEGERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18368 (C-F) ADD A POSITIVE AND A NEGATIVE INTEGER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18369 (A-F) SUBTRACT POSITIVE AND NEGATIVE INTEGERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18370 (A,B) DESCRIBE THE LOCATION OF POSITIVE AND NEGATIVE INTEGERS IN RELATION TO ZERO ON THE NUMBER LINE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18371 (C) IDENTIFY THE NUMBER THAT IS NEITHER POSITIVE NOR NEGATIVE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18372 (A,B) RECOGNIZE A PATTERN IN A SEQUENCE OF NEGATIVE INTEGERS AND GIVE THE NEXT TWO NUMBERS IN THE SEQUENCE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18373 (A-D) ADD OPPOSITE INTEGERS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-19 ODD/EVEN IDENTIFICATION

SOURCE: HEATH

OBJECTIVE: 21216 SELECT FROM AMONG THE WHOLE NUMBERS LESS THAN 1000 THOSE THAT ARE EVEN, THOSE THAT ARE ODD.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	8-10 TO 8-10	8-10 TO 8-10

F1-19 (CONTINUED)

OBJECTIVE: 21353 IDENTIFY A WHOLE NUMBER AS BEING ODD OR EVEN.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18374 (A) IDENTIFY ODD AND EVEN NUMBERS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F1-20 PRIMES

SOURCE: HEATH

OBJECTIVE: 21355 IDENTIFY THE PRIME NUMBERS THAT ARE LESS THAN 40.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21424 LIST THE PRIME NUMBERS BETWEEN 1 AND 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21467 LIST THE PRIME NUMBERS THAT ARE LESS THAN 100.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-00 ADDITION

SOURCE: RURAL UNIT

OBJECTIVE: 90386 WHEN PRESENTED WITH 5 SHAPES AND 5 LETTERS ON PRINTED CARDS, THE LEARNER SHALL DUPLICATE THE DESIGNS AND SHAPES WITH MULTICOLORED RUBBER BANDS ON A WOODEN PATTERN BOARD.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-01 ADDITION (GENERAL TERM)

SOURCE: COMPET

OBJECTIVE: 06314 ADDS WITHOUT CARRYING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01221	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	1	1.00	7-10 TO 7-10	**************
01320	ARITHMETIC STEP BY STEP, KIT B, ADDITION	1	1.00	8- 1 TO 8- 1	8- 7 TO 8- 7
01486	FLASH CARDS - ADDITION	1	1.00	7-10 TO 7-10	**************

SOURCE: HEATH

OBJECTIVE: 21249 SOLVE SIMPLE PRACTICAL PROBLEMS THAT INVOLVE ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21252 ADD ANY NUMBER OF WHOLE NUMBERS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	2.00	9- 4 TO 11- 4	**************
	TEST/TASK				
00002	HEALTH ELEMENTARY MATHEMATICS PROGRAM LEVEL	1	2.00	9- 7 TO [illegible] 7	**************

OBJECTIVE: 21312 ADD ANY TWO WHOLE NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21400 ADD ANY WHOLE NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21450 ADD AND SUBTRACT WITH DECIMALS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21473 ADD ANY TWO NUMBERS GIVEN IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

F2-01 (CONTINUED)

OBJECTIVE: 21541 ADD ANY TWO INTEGERS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18073 WRITE ADDITION SENTENCES TO DESCRIBE THE JOINING OF SETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18074 WRITE ADDITION SENTENCES TO DESCRIBE ADDITION ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18075 COMPLETE ADDITION SENTENCES INVOLVING THE COMMUTATIVE PROPERTY OF ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18076 COMPLETE ADDITION SENTENCES INVOLVING THE ASSOCIATIVE PROPERTY OF ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

F2-01 (CONTINUED)

OBJECTIVE: 18078 COMPLETE ADDITION SENTENCES TO DESCRIBE ADDITION WITH SUM OR ADDEND GREATER THAN 10.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18129 ADD AND SUBTRACT AMOUNTS OF MONEY GREATER THAN ONE DOLLAR, WRITTEN WITH A DOLLAR SIGN AND A DECIMAL POINT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18136 WORK WORD PROBLEMS INVOLVING ADDING AND SUBTRACTING WITH TIME MEASUREMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18260 DIVIDE MIXED NUMBER BY MIXED NUMBER: QUOTIENT GREATER THAN 1; CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18261 ADD TWO 1-DIGIT DECIMALS (VERTICAL): SUM OF DIGITS LESS THAN 10

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18262 ADD TWO 1-DIGIT DECIMALS (VERTICAL): SUM OF DIGITS GREATER THAN OR EQUAL TO 10

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01221	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	1	1.00	7- 4 TO 7- 4	6- 6 TO 6- 6
01321	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	1.00	8-10 TO 8-10	7- 4 TO 7- 4
01322	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	2.00	7- 2 TO 7- 2	6- 2 TO 6- 2
01430	CUISENAIRE CUBES, SQUARES AND RODS	1	1.00	7- 4 TO 7- 4	6- 6 TO 6- 6
01501	BEAD FRAME ABACUS	2	1.00	6-10 TO 9- 2	5-11 TO 7- 7
01502	INVICTA PLASTICS MATHEMATICAL BALANCE	2	1.00	6-10 TO 9- 2	5-11 TO 7- 7
01579	INDIVIDUAL NUMBER LINES	1	2.00	7- 2 TO 7- 2	6- 2 TO 6- 2

OBJECTIVE: 18263 ADD TWO 2-DIGIT DECIMALS (VERTICAL): ALIGN AT RIGHT; REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18264 ADD TWO 3-DIGIT DECIMALS (VERTICAL): ALIGN AT RIGHT; REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18265 ADD TWO 1-DIGIT DECIMALS (HORIZONTAL): ALIGN AT RIGHT

NO IMPLEMENTATION RECORD 1973-1974

F2-01 (CONTINUED)

OBJECTIVE: 18266 ADD 2-DIGIT DECIMAL AND 1-DIGIT DECIMAL (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18267 ADD TWO 2-DIGIT DECIMALS (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18268 ADD TWO 3-DIGIT DECIMALS (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18269 ADD TWO DECIMALS (HORIZONTAL): VARYING NUMBER OF DIGITS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18270 ADD TWO 4-DIGIT DECIMALS (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18271 ADD THREE 4-DIGIT DECIMALS (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

F2-01 (CONTINUED)

OBJECTIVE: 18272 ADD THREE DECIMALS (HORIZONTAL): VARYING NUMBER OF DIGITS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18273 ADD FOUR DECIMALS (HORIZONTAL): VARYING NUMBER DIGITS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18367 (A,B) ADD TWO POSITIVE OR TWO NEGATIVE INTEGERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18368 (C-F) ADD A POSITIVE AND A NEGATIVE INTEGER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18373 (A-D) ADD OPPOSITE INTEGERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18404 WRITE A TRUE CLOSED NUMBER SENTENCE AND A FALSE CLOSED NUMBER SENTENCE BY REPLACING THE BLOCK IN THE OPEN SENTENCE 4 + 7 = WITH A CORRECT AND AN INCORRECT SUM

NO IMPLEMENTATION RECORD 1973-1974

F2-01 (CONTINUED)

OBJECTIVE: 18487 (A,B) ADD AND SUBTRACT WITH TIME MEASUREMENTS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-02 ADDITION FACTS

SOURCE: HEATH

OBJECTIVE: 21141 WRITE SIMPLE ADDITION OR SUBTRACTION EQUATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21142 RELATE ARITHMETIC TO PRACTICAL PROBLEMS BY TELLING STORIES FOR SIMPLE ADDITION AND SUBTRACTION EQUATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21145 COMPUTE BY COUNTING THE BASIC ADDITION AND SUBTRACTION FACTS FOR SUMS TO 6.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21152 ADD 1 TO NUMBERS 0-99.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21156 COMPUTE, BY COUNTING, THE BASIC ADDITION AND SUBTRACTION FACTS FOR SUMS TO 10.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21165 COMPUTE, BY COUNTING, THE BASIC ADDITION AND SUBTRACTION FACTS FOR SUMS TO 12.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21177 RECALL FROM MEMORY THE BASIC ADDITION AND SUBTRACTION FACTS FOR SUMS THROUGH 6.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01221	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	1	1.00	9- 1 TO 9- 1	**************
01443	NUMERO-CUBES SET II	1	1.00	9- 1 TO 9- 1	**************
03285	SET DOMINOES	1	1.00	9- 1 TO 9- 1	**************
03429	ONE INCH COLORED CUBES - SET OF 100	1	1.00	9- 1 TO 9- 1	**************
03912	ELEMENTARY SCHOOL MATHEMATICS, BOOK 1	1	1.00	9- 1 TO 9- 1	**************
90279	MATCH AND CLIP CHART	1	1.00	9- 1 TO 9- 1	**************
	METHODS				
53216	ADDING DOTS ON DOMINOES AND DIE	1	***.**	9- 1 TO 9- 1	**************

OBJECTIVE: 21180 RECALL FROM MEMORY ADDITION AND SUBTRACTION COMBINATIONS FOR SUMS TO 10.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01111	GRADED DIFFICULTY ARITHMETIC PROGRAM SET I	1	1.00	9- 1 TO 9- 1	**************
01221	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	1	1.00	9- 1 TO 9- 1	**************
01486	FLASH CARDS - ADDITION	1	2.00	9- 1 TO 9- 1	**************
01487	FLASH CARDS - SUBTRACTION	1	2.00	9- 1 TO 9- 1	**************
01492	FOLDING PERCEPTION CARDS	1	1.00	9- 1 TO 9- 1	**************
03912	ELEMENTARY SCHOOL MATHEMATICS, BOOK I	1	1.00	9- 1 TO 9- 1	**************
	METHODS				
53249	HIDING PLASTIC DISCS IN HANDS TO DETERMINE M	1	***.**	9- 1 TO 9- 1	**************

OBJECTIVE: 21195 RECALL FROM MEMORY THE BASIC ADDITION AND SUBTRACTION COMBINATIONS FOR SUMS TO 18.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01111	GRADED DIFFICULTY ARITHMETIC PROGRAM SET I	1	2.00	9- 8 TO 9- 8	**************
01223	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	1	1.00	9- 8 TO 9- 8	**************
01443	NUMERO-CUBES SET II	1	1.00	9- 8 TO 9- 8	**************
01486	FLASH CARDS - ADDITION	1	2.00	9- 8 TO 9- 8	**************
01535	INDIVIDUALIZED ARITHMETIC INSTRUCTION-ARITHM	1	2.00	10- 4 TO 10- 4	7- 3 TO 7- 3
01572	MATHFACTS GAMES (KIT OF 5 GAMES)	1	2.00	9- 8 TO 9- 8	**************
01576	ARITHMETIC QUIZMO - ADD-SUBTRACT	1	2.00	9- 8 TO 9- 8	**************
01650	DIAL THE FACTS 1-16 SPECIMEN SET	2	1.50	8- 1 TO 10- 9	6- 5 TO 7- 5
03219	FLASH CARDS FOR THE NEW MATHEMATICS-ADDITION	1	1.00	10-10 TO 10-10	8- 4 TO 8- 4
03220	FLASH CARDS FOR THE NEW MATHEMATICS-SUBTRACT	1	1.00	10-10 TO 10-10	8- 4 TO 8- 4
04243	ADDO - ARITHMETIC GAME	1	1.00	10- 4 TO 10- 4	7- 3 TO 7- 3
04861	COUNTING FRAME	1	***.**	8- 6 TO 8- 6	6- 6 TO 6- 6

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OBJECTIVE# 21195  (CONTINUED)
05844  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  1      1.00  9- 1 TO  9- 1   8- 3 TO  8- 3
07826  TROUBLE                                       1      1.00 10-10 TO 10-10   8- 4 TO  8- 4
90279  MATCH AND CLIP CHART                          1      1.00  9- 8 TO  9- 8   **************
98014  NUMERAL PARCHEESI                             1      1.00 10-10 TO 10-10   8- 4 TO  8- 4
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OBJECTIVE:  21235  GIVE FROM MEMORY ALL BASIC ADDITION AND SUBTRACTION FACTS.

                        NO IMPLEMENTATION RECORD 1973-1974



OBJECTIVE:  21382  RECALL FROM MEMORY THE BASIC ADDITION, SUBTRACTION, MULTIPLICATION
                   AND DIVISION FACTS.

                        NO IMPLEMENTATION RECORD 1973-1974


SOURCE:  RURAL UNIT


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OBJECTIVE:  90326  GIVEN 10 ADDITION FACTS (SUMS LESS THAN 10) STUDENT WILL IDENTIFY
                   SUM BY PLACING CORRECT NUMBER CARD IN SLOTTED ADDITION FACT CARD.


RESOURCE                                         NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                   TITLES                  OF USES  RATING      AGE             AGE
                                                          (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     MATERIALS
04487  WORD RECOGNITION SETS                        3      1.00 13-11 TO 13-11   **************
04489  PICTURE/PHRASE MATCHING SETS                 2      1.00 13-11 TO 13-11   **************
90298  SLOTTED ADDITION FLASHCARDS                  1      1.00 13-11 TO 13-11   **************
98009  COLORED PICTURE CARDS                        1      1.00 13-11 TO 13-11   **************
     METHODS
53029  ASSOCIATING PICTURE WITH CORRESPONDING WORD  2    ***.** 13-11 TO 13-11   **************
```

OBJECTIVE: 90326 (CONTINUED)

53031	USING GESTURES FOR WORDS	1	***.**	13-11 TO 13-11	**************
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	13-11 TO 13-11	**************

OBJECTIVE: 90477 IN A ONE MINUTE FLASHCARD PRESENTATION OF PROBLEMS ADDING 0,1, AND 2 TO THE NUMBERS 0-12, STUDENT WILL SAY THE CORRECT SUM FOR AT LEAST 30 PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: WESTERN UNIT

OBJECTIVE: 90144 STUDENT WILL WRITE CURSIVELY "A", "M", "T", "S", "N", "H", "L" AND WILL SAY AND DISCRIMINATE THE SOUND OF EACH.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06916	TRAC-A-BIT CURSIVE	1	1.00	8- 3 TO 8- 3	7- 2 TO 7- 2
	METHODS				
52253	ACTIVITIES FOR CURSIVE HANDWRITING	1	***.**	8- 3 TO 8- 3	7- 2 TO 7- 2

OBJECTIVE: 90679 GIVEN AN ADDITION OR SUBTRACT FACT FROM 1 TO 9, THE STUDENT WILL GIVE CORRECT ANSWER FROM MEMORY.

OBJECTIVE: 90679 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00183	BLENDS RACE	1	2.00	9- 1 TO 9- 1	9- 4 TO 9- 4
01221	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	1	4.00	8- 2 TO 8- 2	6-11 TO 6-11
01222	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	2	3.00	6-10 TO 9- 6	9- 4*TO* 9- 4
01231	ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,	1	4.00	8- 2 TO 8- 2	6-11 TO 6-11
01232	ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,	1	3.00	9- 1 TO 9- 1	9- 4 TO 9- 4
01321	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	3.00	9- 0 TO 9- 0	8- 3 TO 8- 3
01331	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	1	3.00	9- 0 TO 9- 0	8- 3 TO 8- 3
01431	STUDENT ACTIVITY CARDS FOR CUISENAIRE RODS	1	4.00	8- 2 TO 8- 2	6-11 TO 6-11
01460	CYCLO-TEACHER MACHINE	2	3.50	8- 0 TO 9- 4	6- 5 TO 9-11
01461	MATHEMATICS STUDY WHEELS	1	3.00	7- 9 TO 7- 9	7- 3 TO 7- 3
01482	PUPIL'S NUMBER LINE	1	2.00	8- 2 TO 8- 2	6-11 TO 6-11
01486	FLASH CARDS - ADDITION	1	***.**	7- 9 TO 7- 9	7- 3 TO 7- 3
01487	FLASH CARDS - SUBTRACTION	1	3.00	7- 9 TO 7- 9	7- 3 TO 7- 3
01535	INDIVIDUALIZED ARITHMETIC INSTRUCTION-ARITHM	7	2.71	7- 7 TO 10- 1	7- 8*TO* 9- 6
01572	MATHFACTS GAMES (KIT OF 5 GAMES)	3	3.33	7- 2 TO 10- 8	7- 2 TO 9- 8
03223	SELF-TEACHING FLASH CARDS-ADDITION	6	3.17	7- 6 TO 10- 2	7- 6 TO 9- 6
03224	SELF-TEACHING FLASH CARDS-SUBTRACTION	6	3.17	7- 6 TO 10- 2	7- 6 TO 9- 6
03970	PRIMARY PHONICS WORKBOOK TWO	1	3.00	9- 1 TO 9- 1	9- 4 TO 9- 4
04385	VOWELS AND VARIANTS, LEVEL 3	1	3.00	9- 1 TO 9- 1	9- 4 TO 9- 4
05049	MORE VOWELS AND VARIANTS, LEVEL 4	1	3.00	9- 1 TO 9- 1	9- 4 TO 9- 4
05841	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	3.00	8- 2 TO 8- 2	6-11 TO 6-11
07673	FLASH-X	1	2.00	9- 1 TO 9- 1	9- 4 TO 9- 4
90490	SILVERMAN GAME BOARD	5	2.80	8- 3 TO 10- 5	8- 2 TO 9- 6

OBJECTIVE: 90698 THE STUDENT WILL WRITE ANSWERS TO ADDITION FACTS 11-20.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01111	GRADED DIFFICULTY ARITHMETIC PROGRAM SET I	1	2.00	13- 8 TO 13- 8	11- 9 TO 11- 9

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OBJECTIVE:  90698  (CONTINUED)
07027  MOVING UP IN NUMBERS - BLUE UNIT - NUMBER SE  1      2.00 13- 8 TO 13- 8  11- 9 TO 11- 9
07675  HOFFMAN MATH PROGRAM - LEVEL 13, ACHIEVEMENT  1      1.00 13- 8 TO 13- 8  11- 9 TO 11- 9
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CONTENT AREA: F2-03 ADD./SINGLE COLUMN

SOURCE: HEATH

OBJECTIVE: 21139 ADD 1 TO THE NUMBERS 0-9.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21182 ADD ANY THREE NUMBERS WHOSE SUM IS 10 OR LESS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IAMS

OBJECTIVE: 21024 THE CHILD WILL DEMONSTRATE UNDERSTANDING OF ADDITION FACTS USING SINGLE-DIGIT NUMBERS WITH A SUM 5 OR LESS BY SUPPLYING THE MISSING NUMBER IN A NUMBER SENTENCE, WRITING ADDENDS IN CORRECT VERTICAL OR HORIZONTAL FORMAT, DRAWING CURVES ON NUMBER LINE AND ENCIRCLING APPROPRIATE SUBSETS.

OBJECTIVE: 21024 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	1	1.00	8- 4 TO 8- 4	**************
04714	ALPHABET AVALANCHE	1	1.00	8- 4 TO 8- 4	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	8- 4 TO 8- 4	**************

OBJECTIVE: 21027 GIVEN A PRINTED HORIZONTAL OR VERTICAL ADDITION PROBLEM OF 2 NUMBERS EACH WITH 1 DIGIT AND WITH A SUM OF 5 OR LESS, WRITE THE ANSWER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21028 GIVEN A PRINTED VERBAL STATEMENT OF HOW MANY OF EACH OF 2 TYPES OF OBJECTS A CHILD HAS, THE SUM NOT TO EXCEED 5, WRITE THE TOTAL NUMBER OF OBJECTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21029 THE CHILD WILL DEMONSTRATE UNDERSTANDING OF ADDITION FACTS USING SINGLE-DIGIT NUMBERS WITH A SUM BETWEEN 6 AND 10 BY SUPPLYING MISSING NUMBERS IN A NUMBER SENTENCE, WRITING PROBLEM IN CORRECT VERTICAL OR HORIZONTAL FORMAT DRAWING APPROPRIATE CURVES ON NUMBER LINE, AND BY INCREASING APPROPRIATE SUBSETS.

```
RESOURCE                                                NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                  TITLES                          OF USES  RATING      AGE             AGE
                                                                 (1=HI)  -1SD TO +1SD   -1SD TO +1SD
           MATERIALS
01570  CUBICAL COUNTING BLOCKS                             1      1.00   6- 4 TO  6- 4  **************
05839  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL        1      2.00   7- 4 TO  7- 4  **************
05840  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL        1      1.00   6- 4 TO  6- 4  **************
05842  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL        1      2.00   7- 4 TO  7- 4  **************
07655  STRUCTURAL ARITHMETIC 1, UNIT BLOCKS                1      2.00   7- 4 TO  7- 4  **************
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OBJECTIVE: 21031 GIVEN A PRINTED HORIZONTAL OR VERTICAL ADDITION PROBLEM OF 2 NUMBERS EACH WITH 1 DIGIT AND WITH A SUM BETWEEN 6 AND 10, WRITE THE ANSWER.

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RESOURCE                                                NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                  TITLES                          OF USES  RATING      AGE             AGE
                                                                 (1=HI)  -1SD TO +1SD   -1SD TO +1SD
           MATERIALS
01401  MODERN MATHEMATICS, KINDERGARTEN PART 1             1      2.00   7- 2 TO  7- 2  **************
01404  MODERN MATHEMATICS, GRADE 1, PART 1                 1      1.00  10- 2 TO 10- 2  **************
03630  ADDITION FLASH CARDS                                1      3.00  10- 2 TO 10- 2  **************
04318  TEACHING ARITHMETIC CONCEPTS TO PRE-PRIMARY         1      1.00  10- 2 TO 10- 2  **************
07667  INTO MATHEMATICS LABTEXT - BOOK 1                   1      2.00   7- 2 TO  7- 2  **************
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OBJECTIVE: 21036 GIVEN A PRINTED VERBAL STATEMENT OF HOW MANY OF EACH OF 2 TYPES OF OBJECTS A CHILD HAS, THE SUM BEING BETWEEN 6 AND 10, WRITE THE TOTAL NUMBER OF OBJECTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21041 GIVEN A PRINTED HORIZONTAL OR VERTICAL ADDITION PROBLEM WITH 3 NUMBERS, EACH WITH 1 DIGIT AND A SUM OF 10 OR LESS, WRITE THE SUM.

NO IMPLEMENTATION RECORD 1973-1974

O[illegible]ECTIVE: 21042 THE CHILD WILL DEMONSTRATE UNDERSTANDING OF ADDITION FACTS USING 3 SINGLE-DIGIT NUMBERS WITH A SUM OF 10 OR LESS BY WRITING ANSWER, WRITING PROBLEM IN CORRECT VERTICAL OR HORIZONTAL FORMAT, DRAWING CURVES ON NUMBER LINE, AND ENCIRCLING APPROPRIATE SUBSETS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18000 ADD TWO 1-DIGIT NUMBERS: SUM LESS THAN OR EQUAL TO 10.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	1	1.00	8- 1 TO 8- 1	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	9- 0 TO 9- 0	**************

OBJECTIVE: 18000 (CONTINUED)

01222	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	1	2.00	8- 6 TO 8- 6	7-11 TO 7-11
01486	FLASH CARDS - ADDITION	1	2.00	8- 6 TO 8- 6	7-11 TO 7-11
01490	CROSS NUMBER PUZZLES - ADDITION - SET I	1	2.00	8- 6 TO 8- 6	7-11 TO 7-11
01570	CUBICAL COUNTING BLOCKS	2	1.00	7-11 TO 8- 7	5- 8 TO 8- 4
01572	MATHFACTS GAMES (KIT OF 5 GAMES)	1	2.00	8- 6 TO 8- 6	7-11 TO 7-11
04402	FROSTIG PROGRAM BOX VISUAL-MOTOR COORDINATIO	1	1.00	8- 1 TO 8- 1	**************
04403	FROSTIG PROGRAM BOX PERCEPTUAL CONSTANCY MAS	1	1.00	8- 1 TO 8- 1	**************
04404	FROSTIG PROGRAM BOX FIGURE-GROUND MASTERS	1	1.00	8- 1 TO 8- 1	**************
04405	FROSTIG PROGRAM BOX SPATIAL RELATIONSHIP MAS	1	1.00	8- 1 TO 8- 1	**************
04406	FROSTIG PROGRAM BOX POSITION IN SPACE MASTER	1	1.00	8- 1 TO 8- 1	**************
04419	FIRST EXPERIENCES WITH CONSONANTS	1	1.00	9- 0 TO 9- 0	**************
04442	GREATER CLEVELAND MATHEMATICS PROGRAM,	1	1.00	9- 0 TO 9- 0	7- 3 TO 7- 3
04467	KINESTHETIC TRACE-THE-LETTERS CARDS:	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8
04973	THE 10 GAME	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	8- 0 TO 8- 0	7-11 TO 7-11
07027	MOVING UP IN NUMBERS - BLUE UNIT - NUMBER SE	1	1.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07146	LEVEL 1 - ADDITION FACTS: SUMS LESS THAN TEN	1	1.00	7- 1 TO 7- 1	7- 8 TO 7- 8
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	4	1.00	7- 3 TO 8-11	**************
90497	RAISED SANDPAPER ALPHABET CARDS	1	2.00	7- 1 TO 7- 1	7- 8 TO 7- 8
98014	NUMERAL PARCHEESI	2	**1.00	7-11 TO 8- 7	5- 8 TO 8- 4

OBJECTIVE: 18001 ADD TWO 1-DIGIT NUMBERS: SUM GREATER THAN 10.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	4	1.00	7- 0 TO 9- 8	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	4	1.00	8- 3 TO 74-11	**************
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	75- 0 TO 75- 0	**************
01211	ARITHMETIC STEP BY STEP, KIT A, SETS, LEVEL	1	2.00	11- 3 TO 11- 3	**************
01460	CYCLO-TEACHER MACHINE	1	1.00	7- 3 TO 7- 3	**************
01482	PUPIL'S NUMBER LINE	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
01486	FLASH CARDS - ADDITION	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
01570	CUBICAL COUNTING BLOCKS	2	1.00	7-11 TO 8- 7	5- 8 TO 8- 4

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OBJECTIVE:  18001  (CONTINUED)
01576  ARITHMETIC QUIZMO - ADD-SUBTRACT            1      1.00  7- 3 TO  7- 3  **************
03073  ARITHMETIC READINESS CARDS - ADDITION BASIC 1      2.00 11- 3 TO 11- 3  **************
04442  GREATER CLEVELAND MATHEMATICS PROGRAM,      1      1.00  9- 0 TO  9- 0   7- 3 TO  7- 3
04860  ARITHMETIC GAMES AND ACTIVITIES             1      1.00 11- 3 TO 11- 3  **************
05844  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL 1     1.00  8- 0 TO  8- 0   7-11 TO  7-11
07530  READINESS FOR READING                       1      1.00  7- 2 TO  7- 2  **************
07700  SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC 9     1.00  6- 7 TO 51- 1  **************
98014  NUMERAL PARCHEESI                           2      1.00  7-11 TO  8- 7   5- 8 TO  8- 4
```

OBJECTIVE: 18002 ADD THREE 1-DIGIT NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18142 ADD TWO 1-DIGIT NUMBERS: SUM GREATER THAN OR EQUAL TO 10

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18150 ADD FIVE 1-DIGIT NUMBERS: SUM GREATER THAN OR EQUAL TO 10

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90326 GIVEN 10 ADDITION FACTS (SUMS LESS THAN 10) STUDENT WILL IDENTIFY SUM BY PLACING CORRECT NUMBER CARD IN SLOTTED ADDITION FACT CARD.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90328 GIVEN 10 ADDITION WORD PROBLEMS WITH SUMS LESS THAN 10 - STUDENT WILL COMPUTE TO FIND SUM USING CONCRETE OBJECTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00110	FREQUENCY COUNT (NO TIME)	1	1.00	13-11 TO 13-11	**************

OBJECTIVE: 90590 GIVEN A SERIES OF PRINTED HORIZONTAL OR VERTICAL ADDITION PROBLEMS WITH THE NUMBERS EACH WITH ONE DIGIT AND A SUM BETWEEN 7 AND 17, THE LEARNER WILL WORK THE PROBLEM.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07027	MOVING UP IN NUMBERS - BLUE UNIT - NUMBER SE	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07525	COUNTING RODS	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8

CONTENT AREA: F2-04 ADD./TWO COLUMN

SOURCE: HEATH

OBJECTIVE: 21173 ADD OR SUBTRACT SOME TWO-DIGIT NUMBERS WITHOUT REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

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OBJECTIVE:  21199  ADD ANY TWO WHOLE NUMBERS WHOSE SUM IS LESS THAN 100.

RESOURCE                                                     NUMBER     EFF    CHRONOLOGICAL       MENTAL
NUMBER                        TITLES                         OF USES  RATING        AGE              AGE
                                                                      (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
01372  ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE  1        2.00   9- 8 TO  9- 8   **************
01513  JUDY PLACE VALUE PEG TRAY                     1        1.00   9- 8 TO  9- 8   **************
01535  INDIVIDUALIZED ARITHMETIC INSTRUCTION-ARITHM  1        1.00   8- 4 TO  8- 4    7- 5 TO  7- 5
03914  ELEMENTARY SCHOOL MATHEMATICS, BOOK 2         1        2.00   9- 8 TO  9- 8   **************
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OBJECTIVE:  21247  ADD ANY PAIR OF 2- OR 3-DIGIT NUMBERS.

                                   NO IMPLEMENTATION RECORD 1973-1974


OBJECTIVE:  21248  ADD THREE 2-DIGIT NUMBERS.

                                   NO IMPLEMENTATION RECORD 1973-1974


OBJECTIVE:  21313  ADD ANY THREE 2-DIGIT NUMBERS.

                                   NO IMPLEMENTATION RECORD 1973-1974
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SOURCE: IAMS

OBJECTIVE: 21039 GIVEN A PRINTED VERTICAL ADDITION PROBLEM WITH 2 NUMBERS, EACH WITH 2 DIGITS REPRESENTING AN EVEN DECADE, WITH A SUM OF 100 OR LESS, WRITE THE SUM.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01320	ARITHMETIC STEP BY STEP, KIT B, ADDITION	1	1.00	9- 1 TO 9- 1	7-11 TO 7-11

SOURCE: SRA

OBJECTIVE: 18003 ADD TWO 2-DIGIT MULTIPLES OF 10 AND ADD TWO 3-DIGIT MULTIPLES OF 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18004 ADD TWO 2-DIGIT NUMBERS: NO REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00176	PHONIC WORD BLEND FLIP CHARTS	1	1.00	8- 1 TO 8- 1	**************
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	1	1.00	7-10 TO 7-10	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	2	1.00	7-10 TO 8- 2	**************
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	8- 1 TO 8- 1	**************

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OBJECTIVE:  18004  (CONTINUED)
01223  ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE  1      1.00  7- 2 TO  7- 2   6- 2 TO  6- 2
01320  ARITHMETIC STEP BY STEP, KIT B, ADDITION      1      1.00  7- 2 TO  7- 2   6- 2 TO  6- 2
01321  ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE  2      1.50  9- 0 TO  9- 8   **************
01513  JUDY PLACE VALUE PEG TRAY                     1      1.00  8- 5 TO  8- 5   6- 0 TO  6- 0
01576  ARITHMETIC QUIZMO - ADD-SUBTRACT              1      1.00  7- 3 TO  7- 3   **************
01650  DIAL THE FACTS 1-16 SPECIMEN SET              1      1.00  7- 3 TO  7- 3   **************
07530  READINESS FOR READING                         1      1.00  8- 2 TO  8- 2   **************
07700  SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC  5      1.00  7-10 TO  9- 4   **************
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OBJECTIVE:  18006  ADD TWO 2-DIGIT NUMBERS: REGROUPING TO
                   TENS.


RESOURCE                                        NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                   TITLES                 OF USES  RATING      AGE              AGE
                                                         (1=HI)  -1SD TO +1SD     -1SD TO +1SD

      MATERIALS
01322  ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE  1      2.00  8- 1 TO  8- 1   8- 7 TO  8- 7
01604  ADVENTURES IN MASTERING MATHEMATICS, A, 2ND   1      1.00  9- 4 TO  9- 4   **************
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OBJECTIVE:  18143  ADD TWO 2-DIGIT NUMBERS: NO REGROUPING


RESOURCE                                        NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                   TITLES                 OF USES  RATING      AGE              AGE
                                                         (1=HI)  -1SD TO +1SD     -1SD TO +1SD
      MATERIALS
01222  ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE  1      1.00  9- 7 TO  9- 7   7-11 TO  7-11
01223  ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE  2      1.00  8- 9 TO  9- 5   7- 4*TO* 7- 4
01320  ARITHMETIC STEP BY STEP, KIT B, ADDITION      1      1.00  9- 2 TO  9- 2   9-10 TO  9-10
01321  ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE  1      1.00  8-10 TO  8-10   7- 4 TO  7- 4
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OBJECTIVE: 18151 ADD FOUR 2-DIGIT NUMBERS: REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	2	**1.00	9- 1 TO 9- 3	*************

CONTENT AREA: F2-05 ADD./MULT. COLUMN

SOURCE: HEATH

OBJECTIVE: 21214 ADD ANY TWO 3-DIGIT NUMBERS WITH REGROUPING FROM ONES TO TENS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	8-10 TO 8-10	8-10 TO 8-10

OBJECTIVE: 21247 ADD ANY PAIR OF 2- OR 3-DIGIT NUMBERS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01321	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	1.00	12- 1 TO 12- 1	12- 2 TO 12- 2

OBJECTIVE: 18145 ADD TWO 2-DIGIT NUMBERS: REGROUPING HUNDREDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18146 ADD TWO 2-DIGIT NUMBERS: REGROUPING TENS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00176	PHONIC WORD BLEND FLIP CHARTS	1	1.00	11- 0 TO 11- 0	**************
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	1	1.00	8- 0 TO 8- 0	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	2	1.00	7- 5 TO 11- 7	**************
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	2	1.00	7- 5 TO 11- 7	**************
01223	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	2	1.00	7- 0 TO 12- 0	9- 4*TO* 9- 4
01322	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	2	1.00	7- 2 TO 8- 8	5-11 TO 6- 7
01323	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	2	1.00	9- 0 TO 9- 8	**************
01486	FLASH CARDS - ADDITION	1	1.00	7- 6 TO 7- 8	**************
01513	JUDY PLACE VALUE PEG TRAY	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
01604	ADVENTURES IN MASTERING MATHEMATICS, A, 2ND	2	1.50	6- 8 TO 10- 2	5-10 TO 8- 4
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	1	1.00	8-11 TO 8-11	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	4	1.00	7- 4 TO 10- 4	**************

OBJECTIVE: 18148 ADD TWO 2-DIGIT NUMBERS: REGROUPING TENS AND HUNDREDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21247 (CONTINUED)

01322	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	1.00	12- 1 TO 12- 1	12- 2 TO 12- 2
01323	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	1.00	12- 1 TO 12- 1	12- 2 TO 12- 2
90291	PRESS YOUR LUCK	1	****.**	10- 1 TO 10- 1	9- 6 TO 9- 6

SOURCE: SRA

OBJECTIVE: 18003 ADD TWO 2-DIGIT MULTIPLES OF 10 AND ADD TWO 3-DIGIT MULTIPLES OF 100.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	8- 1 TO 8- 1	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	8- 1 TO 8- 1	**************

OBJECTIVE: 18005 ADD TWO 3-DIGIT NUMBERS: NO REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	7-10 TO 7-10	**************
01323	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	1.00	7- 4 TO 7- 4	6- 6 TO 6- 6
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	7-10 TO 7-10	**************

F2-05 (CONTINUED)

OBJECTIVE: 18007 ADD TWO 3-DIGIT NUMBERS: REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18008 ADD TWO 4-DIGIT NUMBERS: REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18144 ADD TWO 3-DIGIT NUMBERS: NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18147 ADD TWO 5-DIGIT NUMBERS: NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18149 ADD TWO 3-DIGIT NUMBERS: REGROUPING TENS, HUNDREDS, THOUSANDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18152 ADD FOUR 3-DIGIT NUMBERS: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18153 ADD TWO 5-DIGIT NUMBERS: REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	3	1.00	8- 7 TO 11- 3	**************

OBJECTIVE: 18154 ADD THREE 6-DIGIT NUMBERS: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-06 ADD./HORRIZONTAL

SOURCE: SRA

OBJECTIVE: 18155 ADD FIVE NUMBERS (HORIZONTAL): VARYING NUMBER OF DIGITS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01100	NOONAN-SPRADLEY DIAGNOSTIC PROGRAM OF	1	2.00	15- 0 TO 15- 0	**************
01620	ARITHMETIC FACT KIT	1	2.00	13-10 TO 13-10	8-11 TO 8-11
03008	CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS	3	1.33	13-10 TO 15- 0	8- 4*TO* 9- 0
03009	CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS, STUD	1	2.00	14- 5 TO 14- 5	8- 5 TO 8- 5
03973	REFRESHER MATHEMATICS	1	3.00	13-10 TO 13-10	8-11 TO 8-11
	METHODS				
53001	ADDING FIVE NUMBERS WITH VARYING NUMBER OF D	1	***.**	15- 0 TO 15- 0	**************

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OBJECTIVE:  18155  (CONTINUED)
      TEST/TASK
00001  APPROPRIATE VERBALIZATIONS                           1       1.00 14- 5 TO 14- 5    8- 5 TO  8- 5
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SOURCE:  RURAL UNIT


OBJECTIVE:  90297  GIVEN THE LETTERS D, E, F, G, THE STUDENT WILL PRINT EACH LETTER
                   USING CORRECT FORMS

                           NO IMPLEMENTATION RECORD 1973-1974


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OBJECTIVE:  90645  STUDENT WILL DRAW UPPER CASE LETTERS K TO O IN MANUSCRIPT

RESOURCE                                                NUMBER     EFF   CHRONOLOGICAL        MENTAL
NUMBER                       TITLES                     OF USES  RATING       AGE               AGE
                                                                 (1=HI)  -1SD TO +1SD     -1SD TO +1SD
      MATERIALS
03178  TRACING PAPER DESIGNS                                1       1.00  6- 7 TO  6- 7    5- 4 TO  5- 4
04686  MOTIVATORS FOR MANUSCRIPT CAPITAL LETTERS            1       1.00  6- 7 TO  6- 7    5- 4 TO  5- 4
04687  MOTIVATORS FOR MANUSCRIPT LOWER CASE LETTERS         1       1.00  6- 7 TO  6- 7    5- 4 TO  5- 4
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SOURCE:  SU


OBJECTIVE:  99034  THE STUDENT WILL BE ABLE TO ADD TWO 1-DIGIT NUMBERS WITH SUMS OF
                   TEN OR LESS (HORIZONTAL)

                           NO IMPLEMENTATION RECORD 1973-1974
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CONTENT AREA: F2-07 ADD./RAGGED COLUMN

SOURCE: SRA

OBJECTIVE: 18009 ADD THREE OR FOUR NUMBERS OF 2,3, OR 4 DIGITS EACH.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01321	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	1.00	9- 6 TO 9- 6	**************
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	3	1.00	8- 7 TO 11- 3	**************

CONTENT AREA: F2-08 ADD./WITH ZERO

SOURCE: SRA

OBJECTIVE: 18077 COMPLETE ADDITION SENTENCES INVOLVING ZERO.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90477 IN A ONE MINUTE FLASHCARD PRESENTATION OF PROBLEMS ADDING 0,1, AND 2 TO THE NUMBERS 0-12, STUDENT WILL SAY THE CORRECT SUM FOR AT LEAST 30 PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-09 ADD./ASSOCIATIVE PRINCIPLE

SOURCE: HEATH

OBJECTIVE: 21386 IDENTIFY SIMPLE INSTANCES OF SOME ADDITION LAWS AND MULTIPLICATION LAWS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18076 COMPLETE ADDITION SENTENCES INVOLVING THE ASSOCIATIVE PROPERTY OF ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18087 COMPLETE MULTIPLICATION SENTENCES INVOLVING THE ASSOCIATIVE PROPERTY OF MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18411 (A-E) IDENTIFY PROPERTIES OF ADDITION

NO IMPLEMENTATION RECORD 1973-1974

F2-09 (CONTINUED)

OBJECTIVE: 18412 (A-D) IDENTIFY A NUMBER SENTENCE THAT ILLUSTRATES THE ASSOCIATIVE PROPERTY OF ADDITION

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-10 ADD./CARRYING

SOURCE: COMPET

OBJECTIVE: 06315 ADDS WITH CARRYING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01513	JUDY PLACE VALUE PEG TRAY	3	1.00	9- 0 TO 9- 2	7- 4 TO 8- 6
	METHODS				
53335	CLASSROOM STORE	2	**1.00	8- 9 TO 11- 3	8- 3 TO 8- 5

SOURCE: HEATH

OBJECTIVE: 21214 ADD ANY TWO 3-DIGIT NUMBERS WITH REGROUPING FROM ONES TO TENS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18006 ADD TWO 2-DIGIT NUMBERS: REGROUPING TO TENS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18007 ADD TWO 3-DIGIT NUMBERS: REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01223	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	1	3.00	10-11 TO 10-11	9- 9 TO 9- 9
01322	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	3.00	10-11 TO 10-11	9- 9 TO 9- 9
01323	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	3	**3.00	7- 3 TO 10-11	6- 9 TO 10- 3
01608	EXPERIENCES IN MASTERING MATHEMATICS, C, 4TH	2	1.00	8- 0 TO 9- 0	6-11 TO 8-11

OBJECTIVE: 18008 ADD TWO 4-DIGIT NUMBERS: REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18145 ADD TWO 2-DIGIT NUMBERS: REGROUPING HUNDREDS

OBJECTIVE: 18145 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00176	PHONIC WORD BLEND FLIP CHARTS	1	1.00	8- 1 TO 8- 1	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	11- 0 TO 11- 0	**************
07530	READINESS FOR READING	1	1.00	11- 0 TO 11- 0	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	4	1.00	6-11 TO 10- 3	**************

OBJECTIVE: 18146 ADD TWO 2-DIGIT NUMBERS: REGROUPING TENS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18148 ADD TWO 2-DIGIT NUMBERS: REGROUPING TENS AND HUNDREDS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01223	ARITHMETIC STEP BY STEP, KIT A, ADDITION, LE	1	3.00	7- 9 TO 7- 9	7- 3 TO 7- 3
01322	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
01323	ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE	1	2.00	8- 6 TO 8- 6	**************
01343	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	9- 0 TO 9- 0	8- 3 TO 8- 3
01353	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	9- 0 TO 9- 0	8- 3 TO 8- 3
01460	CYCLO-TEACHER MACHINE	1	2.00	10- 6 TO 10- 6	**************
01513	JUDY PLACE VALUE PEG TRAY	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
01605	ADVENTURES IN MASTERING MATHEMATICS, A, 2ND	1	1.00	9- 1 TO 9- 1	7-11 TO 7-11
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	3	1.00	8- 7 TO 11- 3	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	8- 1 TO 8- 1	**************

OBJECTIVE: 18149 ADD TWO 3-DIGIT NUMBERS: REGROUPING TENS, HUNDREDS, THOUSANDS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00176	PHONIC WORD BLEND FLIP CHARTS	1	2.00	11- 0 TO 11- 0	**************
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	11- 0 TO 11- 0	**************
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	3	1.00	8- 7 TO 11- 3	**************
07530	READINESS FOR READING	1	1.00	11- 0 TO 11- 0	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	11- 0 TO 11- 0	**************

OBJECTIVE: 18151 ADD FOUR 2-DIGIT NUMBERS: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18152 ADD FOUR 3-DIGIT NUMBERS: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18153 ADD TWO 5-DIGIT NUMBERS: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18154 ADD THREE 6-DIGIT NUMBERS: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-11 ADD./COMMUTATIVE PRINCIPLE

SOURCE: HEATH

OBJECTIVE: 21386 IDENTIFY SIMPLE INSTANCES OF SOME ADDITION LAWS AND MULTIPLICATION LAWS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IAMS

OBJECTIVE: 21034 GIVEN A VERTICAL OR HORIZONTAL ADDITION NUMBER SENTENCE WITH SUM 10 OR LESS, WRITE THE PROBLEM IN DIFFERENT ORDER TO DEMONSTRATE THE COMMUTATIVE PROPERTY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01570	CUBICAL COUNTING BLOCKS	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0

SOURCE: SRA

OBJECTIVE: 18075 COMPLETE ADDITION SENTENCES INVOLVING THE COMMUTATIVE PROPERTY OF ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

F2-11 (CONTINUED)

OBJECTIVE: 18086 COMPLETE MULTIPLICATION SENTENCES INVOLVING THE COMMUTATIVE PROPERTY OF MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-12 ADD./IDENTITY ELEMENT

SOURCE: SRA

OBJECTIVE: 18089 COMPLETE MULTIPLICATION SENTENCES INVOLVING ZERO AND ONE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18414 (A) IDENTIFY THE IDENTITY ELEMENT OF ADDITION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18415 (B) IDENTIFY THE IDENTITY ELEMENT OF MULTIPLICATION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18417 (D) TELL WHAT NUMBER USED AS A DIVISOR ALWAYS GIVES THE ORIGINAL DIVIDEND AS QUOTIENT

NO IMPLEMENTATION RECORD 1973-1974

F2-12 (CONTINUED)

SOURCE: RURAL UNIT

OBJECTIVE: 90477 IN A ONE MINUTE FLASHCARD PRESENTATION OF PROBLEMS ADDING 0,1, AND 2 TO THE NUMBERS 0-12, STUDENT WILL SAY THE CORRECT SUM FOR AT LEAST 30 PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-13 ADD./MISSING FACTOR

SOURCE: SRA

OBJECTIVE: 18376 (A,B) FIND A MISSING FACTOR, GIVEN A PRODUCT AND ONE FACTOR

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F2-14 ADD./SUBTRACTION INTEGRATION

SOURCE: HEATH

OBJECTIVE: 21179 RELATE ADDITION AND SUBTRACTION BY WRITING TWO ADDITION EQUATIONS AND TWO SUBTRACTION EQUATIONS FOR A SET OF TWO ADDENDS AND A SUM.

NO IMPLEMENTATION RECORD 1973-1974

F2-14 (CONTINUED)

OBJECTIVE: 21181 RELATE ADDITION AND SUBTRACTION BY WRITING TWO ADDITION AND TWO SUBTRACTION EQUATIONS USING THE NUMBERS IN A SET OF TWO ADDENDS AND A SUM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21236 RELATE ADDITION AND SUBTRACTION BY WRITING TWO ADDITION AND TWO SUBTRACTION EQUATIONS FOR A GIVEN TRIPLE OF TWO ADDENDS AND A SUM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21256 CHECK SUBTRACTION PROBLEMS BY ADDING.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IAMS

OBJECTIVE: 21026 GIVEN A VERTICAL OR HORIZONTAL ADDITION NUMBER SENTENCE (WITH SUM 10 OR LESS), OR SUBTRACTION NUMBER SENTENCE (WITH MINUEND 10 OR LESS), WRITE THE INVERSE NUMBER SENTENCE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18095 COMPLETE ADDITION AND SUBTRACTION SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

F2-14 (CONTINUED)

OBJECTIVE: 18401 (A-D) WRITE ONE RELATED SUBTRACTION NUMBER SENTENCE FOR A GIVEN ADDITION SENTENCE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18406 (A,B) TELL THE MISSING NUMERAL IN RELATED ADDITION AND SUBTRACTION EQUATIONS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18408 (A) IDENTIFY THE OPERATION THAT IS THE OPPOSITE OF ADDITION

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 99035 THE STUDENT WILL BE ABLE TO COMPLETE ANY NUMBER SENTENCE INVOLVING ADDITION OR SUBTRACTION WITH A SUM OR DIFFERENCE OF 12 OR LESS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F3-01 SUB./BORROWING

SOURCE: COMPET

OBJECTIVE: 06317 SUBTRACTS WITH BORROWING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01100	NOONAN-SPRADLEY DIAGNOSTIC PROGRAM OF	1	2.00	15- 7 TO 15- 7	12- 0 TO 12- 0
01233	ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,	1	1.00	9- 6 TO 9- 6	**************
01332	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	1	2.00	8- 1 TO 8- 1	**************
01513	JUDY PLACE VALUE PEG TRAY	4	1.00	8- 4 TO 11- 4	7- 4*TO* 8- 6
03008	CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS	1	1.00	15- 7 TO 15- 7	12- 0 TO 12- 0
07829	DIAGNOSIS: AN INSTRUCTIONAL AID - MATHEMATIC	1	2.00	13- 3 TO 13- 3	**************
07830	MODERN MATHEMATICS THROUGH DISCOVERY, LEVEL	1	2.00	13- 3 TO 13- 3	**************
	METHODS				
53002	SUBTRACTING WITH REGROUPING	1	3.00	15- 7 TO 15- 7	12- 0 TO 12- 0
53335	CLASSROOM STORE	2	1.00	8- 9 TO 11- 3	8- 3 TO 8- 5
	TEST/TASK				
00001	APPROPRIATE VERBALIZATIONS	1	1.00	15- 7 TO 15- 7	12- 0 TO 12- 0

SOURCE: HEATH

OBJECTIVE: 21215 SUBTRACT ANY TWO 3-DIGIT NUMBERS WITH REGROUPING FROM TENS TO ONES

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	3	1.33	8- 7 TO 10-11	8- 2 TO 8-10

OBJECTIVE: 21254 SUBTRACT 2- AND 3-DIGIT NUMBERS WITH REGROUPING FROM TENS TO ONES.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18016 SUBTRACT A 2-DIGIT NUMBER FROM A 2 DIGIT NUMBER: REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18018 SUBTRACT A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER: REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18019 SUBTRACT A 3-DIGIT NUMBER FROM A 4-DIGIT NUMBER: REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03008	CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS	1	1.00	15- 1 TO 15- 1	10- 4 TO 10- 4
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	1	1.00	9- 2 TO 9- 2	**************

OBJECTIVE: 18160 SUBTRACT 1-DIGIT NUMBER FROM 2-DIGIT NUMBER: REGROUPING TENS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18161 SUBTRACT 2-DIGIT NUMBER FROM 2-DIGIT NUMBER: REGROUPING TENS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	1	1.00	9- 2 TO 9- 2	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	2	1.00	9- 0 TO 10- 4	9- 3*TO* 9- 3
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	2	1.00	9- 0 TO 10- 4	9- 3*TO* 9- 3
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3
01332	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	5	**1.50	7- 5 TO 10- 3	7- 6*TO* 9- 4
01604	ADVENTURES IN MASTERING MATHEMATICS, A, 2ND	1	2.00	8- 5 TO 8- 5	9- 4 TO 9- 4
01605	ADVENTURES IN MASTERING MATHEMATICS, A, 2ND	1	1.00	9- 1 TO 9- 1	7-11 TO 7-11
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	3	**1.00	8- 7 TO 11- 3	**************
04456	VOWEL SOUNDS	1	1.00	75- 0 TO 75- 0	**************
07000	ENLARGED FLANNEL U.S. COINS	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	4- 6 TO 97- 8	**************

OBJECTIVE: 18162 SUBTRACT 2-DIGIT NUMBER FROM 3-DIGIT NUMBER: REGROUPING TENS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18163 SUBTRACT 2-DIGIT NUMBER FROM 3-DIGIT NUMBER: REGROUPING HUNDREDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18164 SUBTRACT 2-DIGIT NUMBER FROM 3-DIGIT NUMBER: REGROUPING TENS AND HUNDREDS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	9- 2 TO 9- 2	**************
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	2	1.00	8- 6 TO 13- 4	**************
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	1	1.00	12- 7 TO 12- 7	**************
00195	THE NEW PHONICS WE USE, BOOK F, GRADE 5	1	2.00	12- 7 TO 12- 7	**************
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	1	1.00	9- 2 TO 9- 2	**************
04456	VOWEL SOUNDS	1	1.00	9- 2 TO 9- 2	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	8- 6 TO 13- 4	**************

OBJECTIVE: 18165 SUBTRACT 1-DIGIT NUMBER FROM 3-DIGIT NUMBER WITH ZERO IN TENS PLACE: REGROUPING TENS AND HUNDREDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18166 SUBTRACT 2-DIGIT NUMBER FROM 3-DIGIT NUMBER WITH ZERO IN TENS PLACE: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18167 SUBTRACT 3-DIGIT NUMBER FROM 3-DIGIT NUMBER: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

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OBJECTIVE:  18168  SUBTRACT 3-DIGIT NUMBER FROM 3-DIGIT NUMBER WITH ZERO IN
                   TENS PLACE: REGROUPING

RESOURCE
NUMBER                                                   NUMBER    EFF   CHRONOLOGICAL      MENTAL
                          TITLES                         OF USES  RATING      AGE             AGE
      MATERIALS                                                   (1=HI)  -1SD TO +1SD   -1SD TO +1SD
00193  THE NEW PHONICS WE USE, BOOK D, GRADE 3
00194  THE NEW PHONICS WE USE, BOOK E, GRADE 4              1       1.00 12- 7 TO 12- 7  **************
01513  JUDY PLACE VALUE PEG TRAY                            1       1.00 12- 7 TO 12- 7  **************
03976  DEVELOPING MATHEMATICS, 2ND ED., GRADE 3             2       1.00  9- 1 TO  9- 1   8- 3 TO  8- 3
04456  VOWEL SOUNDS                                         1       1.00  9- 2 TO  9- 2  **************
07700  SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC         1       1.00 10- 5 TO 10- 5  **************
     METHODS                                                4       1.00  9- 1 TO 14-11  **************
53335  CLASSROOM STORE
                                                            1       1.00 10-10 TO 10-10   8- 4 TO  8- 4
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OBJECTIVE: 18169 SUBTRACT 4-DIGIT NUMBER FROM 4-DIGIT NUMBER: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F3-02 SUBTRACTION (GENERAL TERM)

SOURCE: COMPET

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OBJECTIVE:  06316  SUBTRACTS WITHOUT BORROWING
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         F3-02 (CONTINUED)

OBJECTIVE:  06316  (CONTINUED)
RESOURCE                                                  NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                           TITLES                   OF USES  RATING      AGE             AGE
                                                                   (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
00282  FITZHUGH PLUS PROGRAMS, SUBTRACTION, MULTIPL  1      ***.**  9- 6 TO  9- 6   9- 3 TO  9- 3
01231  ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,  1        1.00  7-10 TO  7-10  **************
01331  ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,  2      **1.00  9- 6 TO  9- 6   9- 3*TO* 9- 3
03074  ARITHMETIC READINESS CARDS - SUBTRACTION BAS  1        1.00  8- 8 TO  8- 8  **************
03121  MASTERY ARITHMETIC DRILLS AND TESTS, GR. 1    1      ***.**  8- 8 TO  8- 8  **************
03270  DOLCH POPPER NUMBERS SET                      1      ***.**  8- 8 TO  8- 8  **************
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SOURCE:  HEATH


OBJECTIVE:  21158  COMPARE TWO SETS BY SUBTRACTION.

                                 NO IMPLEMENTATION RECORD 1973-1974



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OBJECTIVE:  21204  SOLVE SOME SIMPLE PRACTICAL PROBLEMS USING SUBTRACTION.

RESOURCE                                                  NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                           TITLES                   OF USES  RATING      AGE             AGE
                                                                   (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
05844  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  1        2.00  9- 0 TO  9- 0   6- 2 TO  6- 2
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OBJECTIVE:  21255  SOLVE SIMPLE PRACTICAL PROBLEMS THAT INVOLVE SUBTRACTION.

RESOURCE                                                   NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                     TITLES                          OF USES  RATING      AGE              AGE
                                                                    (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
01545  WORD PROBLEM BOOK 3:  SUBTRACTION                      1       2.00 11- 4 TO 11- 4   9- 2 TO  9- 2
05849  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  1       2.00  8-10 TO  8-10   8-10 TO  8-10
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OBJECTIVE:  21257  SUBTRACT ANY WHOLE NUMBER FROM A LARGER ONE.

RESOURCE                                                   NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                     TITLES                          OF USES  RATING      AGE              AGE
                                                                    (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
05849  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  3       2.00  8- 4 TO 10-10   7- 8*TO* 9- 0
05854  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  1       2.00  9- 7 TO  9- 7  **************
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OBJECTIVE:  21314  FIND THE DIFFERENCE BETWEEN ANY TWO WHOLE NUMBERS.

                               NO IMPLEMENTATION RECORD 1973-1974


OBJECTIVE:  21401  SUBTRACT ANY TWO WHOLE NUMBERS.

                               NO IMPLEMENTATION RECORD 1973-1974
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F3-02 (CONTINUED)

OBJECTIVE: 21450 ADD AND SUBTRACT WITH DECIMALS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21474 SUBTRACT ANY TWO NUMBERS GIVEN IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21542 SUBTRACT ANY TWO INTEGERS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18129 ADD AND SUBTRACT AMOUNTS OF MONEY GREATER THAN ONE DOLLAR, WRITTEN WITH A DOLLAR SIGN AND A DECIMAL POINT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18136 WORK WORD PROBLEMS INVOLVING ADDING AND SUBTRACTING WITH TIME MEASUREMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18274 SUBTRACT 2-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (VERTICAL): NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18275 SUBTRACT 2-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (VERTICAL): ALIGN AT RIGHT; REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18276 SUBTRACT 3-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (VERTICAL): NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18277 SUBTRACT 3-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (VERTICAL): ALIGN AT RIGHT; REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18278 SUBTRACT 3-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (VERTICAL)

NO IMPLEMENTATION RECORD 1973-1974

F3-02 (CONTINUED)

OBJECTIVE: 18279 SUBTRACT 2-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (HORIZONTAL): ALIGN AT RIGHT: NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18280 SUBTRACT 3-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (HORIZONTAL): ALIGN AT RIGHT: NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18281 SUBTRACT 2-DIGIT DECIMAL FROM 3-DIGIT (HORIZONTAL): ALIGN AT RIGHT: NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18282 SUBTRACT 2-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (HORIZONTAL): ALIGN AT RIGHT: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18283 SUBTRACT 1-DIGIT DECIMAL FROM 1-DIGIT WHOLE NUMBER (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

F3-02 (CONTINUED)

OBJECTIVE: 18284 SUBTRACT 2-DIGIT DECIMAL FROM 2-DIGIT WHOLE NUMBER (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18285 SUBTRACT 3-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (HORIZONTAL): REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18286 SUBTRACT 4-DIGIT DECIMAL FROM 4-DIGIT DECIMAL (HORIZONTAL): REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18287 SUBTRACT 3-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18288 SUBTRACT 4-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18369 (A-F) SUBTRACT POSITIVE AND NEGATIVE INTEGERS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F3-03 SUBTRACTION FACTS

SOURCE: HEATH

OBJECTIVE: 21142 RELATE ARITHMETIC TO PRACTICAL PROBLEMS BY TELLING STORIES FOR SIMPLE ADDITION AND SUBTRACTION EQUATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21145 COMPUTE BY COUNTING THE BASIC ADDITION AND SUBTRACTION FACTS FOR SUMS TO 6.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01570	CUBICAL COUNTING BLOCKS	3	1.33	8-11 TO 10-11	5- 1 TO 8- 1
03073	ARITHMETIC READINESS CARDS - ADDITION BASIC	3	1.67	8-11 TO 10-11	5- 1 TO 8- 1
03074	ARITHMETIC READINESS CARDS - SUBTRACTION BAS	3	1.67	8-11 TO 10-11	5- 1 TO 8- 1

OBJECTIVE: 21153 SUBTRACT 1 FROM NUMBERS 1-100.

NO IMPLEMENTATION RECORD 1973-1974

F3-03 (CONTINUED)

OBJECTIVE: 21156 COMPUTE, BY COUNTING, THE BASIC ADDITION AND SUBTRACTION FACTS FOR SUMS TO 10.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21165 COMPUTE, BY COUNTING, THE BASIC ADDITION AND SUBTRACTION FACTS FOR SUMS TO 12.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21177 RECALL FROM MEMORY THE BASIC ADDITION AND SUBTRACTION FACTS FOR SUMS THROUGH 6.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21180 RECALL FROM MEMORY ADDITION AND SUBTRACTION COMBINATIONS FOR SUMS TO 10.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21195 RECALL FROM MEMORY THE BASIC ADDITION AND SUBTRACTION COMBINATIONS FOR SUMS TO 18.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21235 GIVE FROM MEMORY ALL BASIC ADDITION AND SUBTRACTION FACTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21382 RECALL FROM MEMORY THE BASIC ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION FACTS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90709 THE STUDENT WILL IDENTIFY MISSING ELEMENT IN SUBTRACTION PROBLEM, GIVEN 2 OF 3 ELEMENTS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01331	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	1	2.00	8- 8 TO 8- 8	**************
01460	CYCLO-TEACHER MACHINE	1	1.00	8- 6 TO 8- 8	**************
07716	COUNTING FRAME	1	3.00	8- 8 TO 8- 8	**************

SOURCE: WESTERN UNIT

OBJECTIVE: 90679 GIVEN AN ADDITION OR SUBTRACT FACT FROM 1 TO 9, THE STUDENT WILL GIVE CORRECT ANSWER FROM MEMORY.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F3-04 SUB./HORIZONTAL

SOURCE: SRA

OBJECTIVE: 18170 SUBTRACT (HORIZONTAL): VARYING NUMBER OF DIGITS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	12- 7 TO 12- 7	**************
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	1	1.00	12- 7 TO 12- 7	**************
00195	THE NEW PHONICS WE USE, BOOK F, GRADE 5	1	2.00	12- 7 TO 12- 7	**************
03008	CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS	1	2.00	14- 3 TO 14- 3	10- 6 TO 10- 6
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	12- 7 TO 12- 7	**************
	TEST/TASK				
00001	APPROPRIATE VERBALIZATIONS	1	1.00	14- 3 TO 14- 3	10- 6 TO 10- 6

CONTENT AREA: F3-05 SUB./WITH ZERO

SOURCE: SRA

OBJECTIVE: 18082 COMPLETE SUBTRACTION SENTENCES INVOLVING ZERO.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18165 SUBTRACT 1-DIGIT NUMBER FROM 3-DIGIT NUMBER WITH ZERO IN TENS PLACE: REGROUPING TENS AND HUNDREDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18166 SUBTRACT 2-DIGIT NUMBER FROM 3-DIGIT NUMBER WITH ZERO IN TENS PLACE: REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	9- 2 TO 9- 2	**************
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	2	1.00	8- 6 TO 13- 4	**************
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	2	1.00	8- 6 TO 13- 4	**************
00195	THE NEW PHONICS WE USE, BOOK F, GRADE 5	1	1.00	12- 7 TO 12- 7	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	12- 7 TO 12- 7	**************

OBJECTIVE: 18169 SUBTRACT 3-DIGIT NUMBER FROM 3-DIGIT NUMBER WITH ZERO IN TENS PLACE: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: WESTERN UNIT

OBJECTIVE: 90140 STUDENT WILL IDENTIFY, SPELL AND DISCRIMINATE BETWEEN A GIVEN LIST OF HOMONYMS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F3-06 SUB./TWO COLUMN

SOURCE: HEATH

OBJECTIVE: 21173 ADD OR SUBTRACT SOME TWO-DIGIT NUMBERS WITHOUT REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01450	MEASURE UP	1	2.00	11-10 TO 11-10	**************
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	11- 7 TO 11- 7	13- 1 TO 13- 1

OBJECTIVE: 21202 USE ADDITION TO SOLVE SOME PRACTICAL PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21203 SUBTRACT ANY TWO-DIGIT NUMBER FROM A TWO-DIGIT NUMBER THAT IS GREATER THAN OR EQUAL TO IT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01332	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	2	1.50	9- 2 TO 9- 2	7- 8 TO 7- 8
01431	STUDENT ACTIVITY CARDS FOR CUISENAIRE RODS	1	1.00	9- 2 TO 9- 2	7- 8 TO 7- 8
01513	JUDY PLACE VALUE PEG TRAY	1	1.00	10- 0 TO 10- 0	9- 5 TO 9- 5
03931	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4,	1	1.00	9- 2 TO 9- 2	7- 8 TO 7- 8
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.50	8-10 TO 10- 2	5- 6 TO 10- 2

OBJECTIVE: 21203 (CONTINUED)

05846	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	10- 0 TO 10- 0	9- 5 TO 9- 5
06089	ELEMENTARY SCHOOL MATHEMATICS, BOOK 3, DUPLI	1	1.00	9- 2 TO 9- 2	7- 8 TO 7- 8

OBJECTIVE: 21253 SUBTRACT 2-AND 3-DIGIT NUMBERS WITH NO REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21254 SUBTRACT 2- AND 3-DIGIT NUMBERS WITH REGROUPING FROM TENS TO ONES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01332	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	1	1.00	9- 2 TO 9- 2	7- 8 TO 7- 8
01333	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	1	1.00	10- 0 TO 10- 0	9- 5 TO 9- 5
01513	JUDY PLACE VALUE PEG TRAY	1	1.00	9- 2 TO 9- 2	7- 8 TO 7- 8
03931	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4,	1	1.00	9- 2 TO 9- 2	7- 8 TO 7- 8
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.50	8- 7 TO 10- 3	7- 7 TO 9- 9
05851	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	10- 0 TO 10- 0	9- 5 TO 9- 5

SOURCE: IAMS

OBJECTIVE: 21040 GIVEN A PRINTED VERTICAL SUBTRACTION PROBLEM WITH 2 NUMBERS, EACH WITH 2 DIGITS REPRESENTING AN EVEN DECADE, WITH A MINUEND OF 100 OR LESS, WRITE THE DIFFERENCE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18013 SUBTRACT TWO 2-DIGIT MULTIPLES OF 10, AND SUBTRACT TWO 3-DIGIT MULTIPLES OF 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18014 SUBTRACT A 2-DIGIT NUMBER FROM A 2-DIGIT NUMBER: NO REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01232	ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
07027	MOVING UP IN NUMBERS - BLUE UNIT - NUMBER SE	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07525	COUNTING RODS	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07568	COUNTDOWN - TAPE 1, SIDE 1, AND FOLDER (LESS	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	7- 0 TO 8- 0	**************

OBJECTIVE: 18016 SUBTRACT A 2-DIGIT NUMBER FROM A 2 DIGIT NUMBER: REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01233	ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,	1	1.00	7- 4 TO 7- 4	6- 6 TO 6- 6
06679	GREATER CLEVELAND MATHEMATICS PROGRAMS - TWO	1	4.00	9- 3 TO 9- 3	7-10 TO 7-10

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OBJECTIVE:  18016  (CONTINUED)
      METHODS
53253  SUBTRACTING WITHOUT CONCENTRATING ON PLACE V  1       1.00  9- 3 TO  9- 3   7-10 TO  7-10
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OBJECTIVE:  18017  SUBTRACT A 2-DIGIT NUMBER FROM A 2-DIGIT MULTIPLE OF 10.

                            NO IMPLEMENTATION RECORD 1973-1974



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OBJECTIVE:  18159  SUBTRACT 2-DIGIT NUMBER FROM 2-DIGIT NUMBER: NO REGROUPING

RESOURCE                                          NUMBER     EFF   CHRONOLOGICAL      MENTAL
NUMBER                   TITLES                   OF USES  RATING       AGE             AGE
                                                           (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
00282  FITZHUGH PLUS PROGRAMS, SUBTRACTION, MULTIPL  1       1.00  9- 4 TO  9- 4  **************
01233  ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,  1       1.00  9- 4 TO  9- 4  **************
03976  DEVELOPING MATHEMATICS, 2ND ED., GRADE 3      4       1.00  9- 0 TO 11- 8  **************
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OBJECTIVE:  18161  SUBTRACT 2-DIGIT NUMBER FROM 2-DIGIT NUMBER: REGROUPING TENS

                            NO IMPLEMENTATION RECORD 1973-1974
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CONTENT AREA: F3-07 SUB./THREE OR MORE COLUMNS

SOURCE: HEATH

OBJECTIVE: 21215 SUBTRACT ANY TWO 3-DIGIT NUMBERS WITH REGROUPING FROM TENS TO ONES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21253 SUBTRACT 2-AND 3-DIGIT NUMBERS WITH NO REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL 3		2.00	8-10 TO 8-10	7-11 TO 9- 1

OBJECTIVE: 21254 SUBTRACT 2- AND 3-DIGIT NUMBERS WITH REGROUPING FROM TENS TO ONES.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18013 SUBTRACT TWO 2-DIGIT MULTIPLES OF 10, AND SUBTRACT TWO 3-DIGIT MULTIPLES OF 100.

OBJECTIVE: 18013 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
00176	PHONIC WORD BLEND FLIP CHARTS	1	1.00	8- 1 TO 8- 1	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	8- 1 TO 8- 1	**************

OBJECTIVE: 18015 SUBTRACT A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER: NO REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	8- 2 TO 8- 2	**************
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	1	1.00	8- 2 TO 8- 2	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	4	1.00	7- 1 TO 9- 7	**************

OBJECTIVE: 18018 SUBTRACT A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER: REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
01233	ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,	2	3.00	8- 6 TO 11- 4	9- 3 TO 9-11
01332	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	1	3.00	10-11 TO 10-11	9- 9 TO 9- 9
01333	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	2	3.00	8- 8 TO 11- 4	9- 3 TO 9-11

OBJECTIVE: 18167 SUBTRACT 3-DIGIT NUMBER FROM 3-DIGIT NUMBER: REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01233	ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,	1	3.00	7- 9 TO 7- 9	7- 3 TO 7- 3
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	2	1.00	8- 7 TO 12- 1	**************
04455	[illegible] STANDS	1	1.00	10- 5 TO 10- 5	**************
07702	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	6-11 TO 10- 9	**************

OBJECTIVE: 18168 SUBTRACT 3-DIGIT NUMBER FROM 3-DIGIT NUMBER WITH ZERO IN TENS PLACE: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18169 SUBTRACT 4-DIGIT NUMBER FROM 4-DIGIT NUMBER: REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03008	CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS	1	2.00	13-10 TO 13-10	8-11 TO 8-11
03976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	1	1.00	9- 2 TO 9- 2	**************
	METHODS				
52818	SRA WHOLE NUMBER SUBTRACTION	1	***.**	13-10 TO 13-10	8-11 TO 8-11

CONTENT AREA: F3-08 SUB./RAGGED COLUMN

SOURCE: SRA

OBJECTIVE: 18011 SUBTRACT A 1-DIGIT NUMBER FROM A NUMBER BETWEEN 9 AND 19: SUM LESS THAN 10.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00176	PHONIC WORD BLEND FLIP CHARTS	1	1.00	10- 2 TO 10- 2	**************
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	2	1.00	6- 7 TO 10- 9	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	10- 2 TO 10- 2	**************
03631	SUBTRACTION FLASH CARDS	1	2.00	8-10 TO 8-10	9- 2 TO 9- 2
04456	VOWEL SOUNDS	1	1.00	7- 2 TO 7- 2	**************
07675	HOFFMAN MATH PROGRAM - LEVEL 13, ACHIEVEMENT	1	1.00	13- 8 TO 13- 8	11- 9 TO 11- 9
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	6	1.00	7- 0 TO 9- 8	**************

OBJECTIVE: 18012 SUBTRACT ZERO FROM A 1-DIGIT AND A 2-DIGIT NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
0 976	DEVELOPING MATHEMATICS, 2ND ED., GRADE 3	1	1.00	9- 2 TO 9- 2	**************

OBJECTIVE: 18019 SUBTRACT A 3-DIGIT NUMBER FROM A 4-DIGIT NUMBER: REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18157 SUBTRACT 1-DIGIT NUMBER FROM 2-DIGIT NUMBER: NO REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	1	1.00	10- 2 TO 10- 2	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	10- 2 TO 10- 2	**************
01232	ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
01482	PUPIL'S NUMBER LINE	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
01487	FLASH CARDS - SUBTRACTION	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
04456	VOWEL SOUNDS	1	***.**	10- 2 TO 10- 2	**************
07027	MOVING UP IN NUMBERS - BLUE UNIT - NUMBER SE	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07525	COUNTING RODS	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07568	COUNTDOWN - TAPE 1, SIDE 1, AND FOLDER (LESS	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	3	1.00	6- 3 TO 9-11	**************

OBJECTIVE: 18158 SUBTRACT 1-DIGIT NUMBER FROM 3-DIGIT NUMBER: NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18160 SUBTRACT 1-DIGIT NUMBER FROM 2-DIGIT NUMBER: REGROUPING TENS

OBJECTIVE: 18160 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00176	PHONIC WORD BLEND FLIP CHARTS	1	1.00	75- 0 TO 75- 0	**************
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	1	1.00	9- 2 TO 9- 2	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	2	1.00	8- 7 TO 12- 9	13- 0*TO*13- 0
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	4	1.00	4- 8 TO 66- 6	13- 0*TO*13- 0
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	3	1.00	2-11 TO 75- 3	13- 0*TO*13- 0
00195	THE NEW PHONICS WE USE, BOOK F, GRADE 5	1	2.00	12- 7 TO 12- 7	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	4	1.00	4- 8 TO 66- 6	13- 0*TO*13- 0

OBJECTIVE: 18162 SUBTRACT 2-DIGIT NUMBER FROM 3-DIGIT NUMBER: REGROUPING TENS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0

OBJECTIVE: 18163 SUBTRACT 2-DIGIT NUMBER FROM 3-DIGIT NUMBER: REGROUPING HUNDREDS

OBJECTIVE: 18163 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	1	1.00	8- 0 TO 8- 0	*************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	8- 0 TO 8- 0	*************
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	8- 0 TO 8- 0	*************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	7- 9 TO 9- 5	*************

OBJECTIVE: 18164 SUBTRACT 2-DIGIT NUMBER FROM 3-DIGIT NUMBER:
REGROUPING TENS AND HUNDREDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18165 SUBTRACT 1-DIGIT NUMBER FROM 3-DIGIT NUMBER WITH ZERO IN TENS
PLACE: REGROUPING TENS AND HUNDREDS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0

OBJECTIVE: 18166 SUBTRACT 2-DIGIT NUMBER FROM 3-DIGIT NUMBER WITH ZERO IN TENS PLACE: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F3-09 SUB./ADDITION INTEGRATION

SOURCE: HEATH

OBJECTIVE: 21179 RELATE ADDITION AND SUBTRACTION BY WRITING TWO ADDITION EQUATIONS AND TWO SUBTRACTION EQUATIONS FOR A SET OF TWO ADDENDS AND A SUM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21181 RELATE ADDITION AND SUBTRACTION BY WRITING TWO ADDITION AND TWO SUBTRACTION EQUATIONS USING THE NUMBERS IN A SET OF TWO ADDENDS AND A SUM.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01570	CUBICAL COUNTING BLOCKS	1	1.00	10-10 TO 10-10	8- 4 TO 8- 4

OBJECTIVE: 21236 RELATE ADDITION AND SUBTRACTION BY WRITING TWO ADDITION AND TWO SUBTRACTION EQUATIONS FOR A GIVEN TRIPLE OF TWO ADDENDS AND A SUM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21256 CHECK SUBTRACTION PROBLEMS BY ADDING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	8-10 TO 8-10	8-10 TO 8-10

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90709 THE STUDENT WILL IDENTIFY MISSING ELEMENT IN SUBTRACTION PROBLEM, GIVEN 2 OF 3 ELEMENTS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F3-10 SUB./SINGLE COLUMN

SOURCE: HEATH

OBJECTIVE: 21140 SUBTRACT 1 FROM THE NUMBERS 1-10.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IAMS

OBJECTIVE: 21025 THE CHILD WILL DEMONSTRATE UNDERSTANDING OF SINGLE-DIGIT SUBTRACTION FACTS WITH MINUENDS 5 OR SMALLER BY WRITING ANSWER, WRITING IN CORRECT VERTICAL OR HORIZONTAL FORMAT, DRAWING CURVE ON NUMBER LINE, AND "X"ING OUT APPROPRIATE NUMBER OF ELEMENTS FROM A SET.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	6-11 TO 6-11	**************

OBJECTIVE: 21030 THE CHILD WILL DEMONSTRATE UNDERSTANDING OF SINGLE-DIGIT SUBTRACTION FACTS WITH MINUENDS BETWEEN 6 AND 10 BY WRITING ANSWER, WRITING PROBLEM IN CORRECT VERTICAL OR HORIZONTAL FORMAT, DRAWING APPROPRIATE CURVES ON NUMBER LINE AND BY "X-ING" OUT THE APPROPRIATE NUMBER OF ELEMENTS IN A SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21032 GIVEN A PRINTED HORIZONTAL OR VERTICAL SUBTRACTION PROBLEM OF 2 NUMBERS OF 1 DIGIT EACH, WITH A MINUEND OF 5 OR LESS, WRITE THE ANSWER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21033 GIVEN A PRINTED HORIZONTAL OR VERTICAL SUBTRACTION PROBLEM OF 2 NUMBERS OF 1 DIGIT EACH, WITH A MINUEND BETWEEN 6 AND 10, WRITE THE ANSWER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01112	GRADED DIFFICULTY ARITHMETIC PROGRAM SET II	1	1.00	13- 8 TO 13- 8	11- 9 TO 11- 9
04621	MODERN ARITHMETIC, GRADE 2, 2ND PART	1	2.00	13- 8 TO 13- 8	11- 9 TO 11- 9
06100	SYSTEM 80 - LEARNING NUMBER FACTS - KIT B (R	1	2.00	13- 8 TO 13- 8	11- 9 TO 11- 9

SOURCE: SRA

OBJECTIVE: 18010 SUBTRACT A 1-DIGIT NUMBER FROM A 1-DIGIT NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00176	PHONIC WORD BLEND FLIP CHARTS	1	1.00	9- 0 TO 9- 0	**************
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	2	1.00	8- 0 TO 9- 2	**************
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	8- 2 TO 8- 2	**************
01232	ARITHMETIC STEP BY STEP, KIT A, SUBTRACTION,	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
01487	FLASH CARDS - SUBTRACTION	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
01570	CUBICAL COUNTING BLOCKS	1	1.00	8- 5 TO 8- 5	6- 0 TO 6- 0
03270	DOLCH POPPER NUMBERS SET	1	2.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07027	MOVING UP IN NUMBERS - BLUE UNIT - NUMBER SE	1	1.00	7- 9 TO 7- 9	5- 8 TO 5- 8
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	4	1.00	7-10 TO 8-10	**************

F3-10 (CONTINUED)

OBJECTIVE: 18156 SUBTRACT 1-DIGIT NUMBER FROM 1-DIGIT NUMBER

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F4-01 MULT./DISTRIBUTIVE PRINCIPLE

SOURCE: SRA

OBJECTIVE: 18085 WRITE MULTIPLICATION SENTENCES TO DESCRIBE REPEATED ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18088 COMPLETE MULTIPLICATION SENTENCES INVOLVING THE DISTRIBUTIVE PROPERTY OF MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18419 (A-D) USE THE DISTRIBUTIVE PROPERTY OF MULTIPLICATION OVER ADDITION TO REPLACE PLACEHOLDERS IN AN EQUATION

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F4-02 MULTIPLICATION (GENERAL TERM)

SOURCE: HEATH

OBJECTIVE: 21223 WRITE A MULTIPLICATION EQUATION FOR A GIVEN RECTANGULAR ARRAY OF COUNTERS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.00	11- 1 TO 11- 5	8- 4 TO 9- 4

OBJECTIVE: 21225 SOLVE SIMPLE SITUATION PROBLEMS BY MULTIPLICATION.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	11- 4 TO 11- 4	9- 2 TO 9- 2

OBJECTIVE: 21258 WRITE A MULTIPLICATION EQUATION FOR A SITUATION INVOLVING SEVERAL SETS WITH THE SAME NUMBER OF ELEMENTS IN EACH SET.

OBJECTIVE: 21258 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01412	MODERN MATHEMATICS, GRADE 3, PART 1	4	2.00	7- 8 TO 12- 2	5- 0*TO* 8- 6
01413	MODERN MATHEMATICS, GRADE 3, PART 2	4	2.00	7- 8 TO 12- 2	5- 0*TO* 8- 6
01414	MODERN MATHEMATICS, GRADE 3, PART 3	4	2.00	7- 8 TO 12- 2	5- 0*TO* 8- 6
01488	FLASH CARDS - MULTIPLICATION	1	1.00	11- 9 TO 11- 9	6- 8 TO 6- 8
01570	CUBICAL COUNTING BLOCKS	1	1.00	10- 1 TO 10- 1	9- 6 TO 9- 6
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	6	1.50	9- 2 TO 11- 4	7- 1*TO* 8- 5

OBJECTIVE: 21261 USE MULTIPLICATION OR DIVISION TO SOLVE SIMPLE PRACTICAL PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21282 SOLVE SOME PRACTICAL PROBLEMS USING MULTIPLICATION OR DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21343 USE MULTIPLICATION TO SOLVE SOME PRACTICAL PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21475 MULTIPLY ANY NUMBER INCLUDING ONE IN DECIMAL FORM, A) BY A ONE-DIGIT NUMBER, OR A MULTIPLE OF 10 OR 100; B) BY ANY TWO-OR THREE-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

F4-02 (CONTINUED)

OBJECTIVE: 21478 MULTIPLY BY ANY WHOLE NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21523 MULTIPLY TWO NUMBERS IN DECIMAL FORM WHEN ONE HAS AT MOST THREE SIGNIFICANT DIGITS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21525 MULTIPLY ANY TWO NUMBERS IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18289 MULTIPLY 1-DIGIT WHOLE NUMBER AND .1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18290 MULTIPLY 2-DIGIT WHOLE NUMBER AND .01

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18291 MULTIPLY 3-DIGIT DECIMAL AND .1 OR .01

NO IMPLEMENTATION RECORD 1973-1974

F4-02 (CONTINUED)

OBJECTIVE: 18292 MULTIPLY 3-DIGIT WHOLE NUMBER AND 3-DIGIT DECIMAL: NO LEADING ZEROS IN PRODUCT GIVEN: STUDENT INSERTS DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18293 MULTIPLY 3-DIGIT DECIMAL AND 3-DIGIT DECIMAL: NO LEADING ZEROS IN PRODUCT GIVEN: STUDENT INSERTS DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18294 MULTIPLY 2-DIGIT WHOLE NUMBER AND DECIMAL WITH 3 SIGNIFICANT DIGITS: PRODUCT GIVEN: STUDENT INSERTS DECIMAL POINT AND LEADING ZEROS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18295 MULTIPLY 3-DIGIT DECIMAL AND DECIMAL WITH 1 SIGNIFICANT DIGIT: PRODUCT GIVEN: STUDENT INSERTS DECIMAL POINT AND LEADING ZEROS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18296 MULTIPLY WHOLE NUMBER WITH 1 NONZERO DIGIT AND 1-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18297 MULTIPLY 1-DIGIT DECIMAL AND 1-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18298 MULTIPLY 1-DIGIT DECIMAL AND 2-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18299 MULTIPLY 1-DIGIT DECIMAL AND 3-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18300 MULTIPLY 2-DIGIT DECIMAL AND 2-DIGIT DECIM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18301 MULTIPLY 2-DIGIT DECIMAL AND 3-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18302 MULTIPLY 3-DIGIT DECIMAL AND 3-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

F4-02 (CONTINUED)

OBJECTIVE: 18303 MULTIPLY 3-DIGIT DECIMAL AND 4-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18413 (A-D) WRITE TWO MULTIPLICATION EQUATIONS FOR A GIVEN ARRAY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18418 (A-F) MATCH EACH OF FIVE MULTIPLICATION PROPERTIES TO AN ILLUSTRATIVE EQUATION

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA.

OBJECTIVE: 18083 WRITE MULTIPLICATION SENTENCES TO DESCRIBE THE JOINING OF EQUIVALENT SETS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F4-03 MULTIPLICATION FACTS

SOURCE: COMPET

OBJECTIVE: 06322 KNOWS MULTIPLICATION TABLES THROUGH NINE

OBJECTIVE: 06322 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00282	FITZHUGH PLUS PROGRAMS, SUBTRACTION, MULTIPL	1	2.00	9- 0 TO 9- 0	7- 1 TO 7- 1
01110	LANGUAGE MASTER AUDIO-VISUAL PROGRAMS	2	1.00	9- 7 TO 9- 9	**************
01112	GRADED DIFFICULTY ARITHMETIC PROGRAM SET II	3	1.33	9-11 TO 11- 3	9- 1*TO*10- 3
01341	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	9-11 TO 9-11	9- 4 TO 9- 4
01342	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	3.00	13- 1 TO 13- 1	**************
01350	ARITHMETIC STP BY STEP, KIT B, MULTIPLICATIO	2	1.00	8- 0 TO 8- 3	**************
01351	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	9-11 TO 9-11	9- 4 TO 9- 4
01352	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	3.00	13- 1 TO 13- 1	**************
01413	MODERN MATHEMATICS, GRADE 3, PART 2	1	***.**	9-10 TO 9-10	**************
01460	CYCLO-TEACHER MACHINE	2	3.00	9-11 TO 9-11	7-11 TO 9- 7
01461	MATHEMATICS STUDY WHEELS	1	***.**	7- 9 TO 7- 9	7- 3 TO 7- 3
01488	FLASH CARDS - MULTIPLICATION	17	**1.63	8- 1 TO 11- 3	6- 7*TO*10- 9
01526	SELF TEACHER TESTER CHECKER NEW MATH MULTIPL	1	2.00	9- 9 TO 9- 9	**************
01529	IMMA WHIZ - MULTIPLICATION AND DIVISION	1	1.00	12- 7 TO 12- 7	13- 6 TO 13- 6
01535	INDIVIDUALIZED ARITHMETIC INSTRUCTION-ARITHM	3	2.00	8- 0 TO 10- 4	7- 3 TO 9- 5
01572	MATHFACTS GAMES (KIT OF 5 GAMES)	1	1.00	11- 5 TO 11- 5	**************
01576	ARITHMETIC QUIZMO - ADD-SUBTRACT	2	2.00	8- 4 TO 10- 6	**************
01577	ARITHMETIC QUIZMO - MULTIPLY-DIVIDE	1	1.00	11- 5 TO 11- 5	**************
01606	PROGRESS IN MASTERING MATHEMATICS, B, 3RD GR	3	1.00	8- 2 TO 9- 0	6-11*TO* 8-11
01620	ARITHMETIC FACT KIT	6	1.33	9-10 TO 12-10	10- 6*TO*10- 6
01621	ARITHMETIC FACT KIT FACT PACER	4	1.25	9- 5 TO 13- 5	8-11*TO*10- 9
01622	ARITHMETIC FACT KIT STUDENT RECORD BOOKS	2	**1.00	10- 6 TO 11- 4	**************
03220	FLASH CARDS FOR THE NEW MATHEMATICS-SUBTRACT	2	3.00	7-11 TO 9- 3	8- 3 TO 8- 3
03221	FLASH CARDS FOR THE NEW MATHEMATICS-MULTIPLI	2	2.00	10- 8 TO 11- 8	8-11 TO 11- 7
03225	SELF-TEACHING FLASH CARDS-MULTIPLICATION	6	2.50	8- 8 TO 10- 6	7-10 TO 10- 0
03226	SELF-TEACHING FLASH CARDS-DIVISION	3	3.00	9- 7 TO 10- 9	8- 4 TO 10-10
03918	MODERN SCHOOL MATHEMATICS: STRUCTURE AND US	1	***.**	9- 0 TO 9- 0	7- 1 TO 7- 1
03923	ELEMENTARY SCHOOL MATHEMATICS, BOOK 3	2	2.00	11- 1 TO 11- 7	9-11 TO 11- 5
04621	MODERN ARITHMETIC, GRADE 2, 2ND PART	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1
04911	MULTIPLICATION - POPPER NUMBERS	1	***.**	9- 0 TO 9- 0	7- 1 TO 7- 1
04948	THE WINNING TOUCH	1	1.00	8- 6 TO 8- 8	**************
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	9- 9 TO 9- 9	**************
06104	SYSTEM 80 - LEARNING NUMBER FACTS - KIT F (R	1	2.00	11- 6 TO 11- 6	11- 2 TO 11- 2
07021	UNIVERSAL ARITHMETIC 4	1	2.00	9-10 TO 9-10	**************
07826	TROUBLE	1	1.00	10-10 TO 10-10	9- 6 TO 9- 6
07829	DIAGNOSIS: AN INSTRUCTIONAL AID - MATHEMATIC	1	2.00	11- 5 TO 11- 5	**************
07830	MODERN MATHEMATICS THROUGH DISCOVERY, LEVEL	1	2.00	11- 5 TO 11- 5	**************

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OBJECTIVE:  06322  (CONTINUED)
90286  EVERYTHING BOARD                                  1      1.00 11- 5 TO 11- 5  **************
90304  PITCHING CHIPS                                    1      1.00  8- 8 TO  8- 8  **************
90379  WINNING TOUCH                                     1      1.00 11- 5 TO 11- 5  **************
90490  SILVERMAN GAME BOARD                              6      2.17  8- 1 TO 10- 5   7- 4 TO  9-10
90520  BEAN MULTIPLICATION PROGRAM                       1      2.00  8- 5 TO  8- 5  **************
     METHODS
52258  MULTIPLICATION FACTS                              1    ***.**  9- 9 TO  9- 9  **************
53250  MEMORIZING MULTIPLICATION TABLES INCORPORATI      2    **1.00  9- 7 TO  9- 7  **************
5[illegible]  LEARNING MULTIPLICATION TABLES VIA FINGER GA     1      1.00 11-11 TO 11-11  11- 0 TO 11- 0
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OBJECTIVE:  06323  MULTIPLIES WITH MULTIPLIER OF ONE OR TWO DIGITS


RESOURCE                                               NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                        TITLES                   OF USES  RATING       AGE             AGE
                                                                (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     MATERIALS
05844  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  1         2.00 10- 0 TO 10- 0  10- 4 TO 10- 4
     METHODS
53335  CLASSROOM STORE                               1         1.00 10-10 TO 10-10   8- 4 TO  8- 4
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SOURCE:  HEATH



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OBJECTIVE:  21222  USE COUNTERS TO COMPUTE BASIC MULTIPLICATION FACTS WITH 2,3,4, OR
                   5 AS ONE FACTOR.
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OBJECTIVE:  21222  (CONTINUED)
RESOURCE
NUMBER                                                  NUMBER    EFF   CHRONOLOGICAL        MENTAL
                              TITLES                   OF USES  RATING       AGE               AGE
                                                                (1=HI)  -1SD TO +1SD     -1SD TO +1SD
       MATERIALS
01321  ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE   1        2.00 11-10 TO 11-10   **************
01322  ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE   1        2.00 11-10 TO 11-10   **************
01323  ARITHMETIC STEP BY STEP, KIT B, ADDITION, LE   1        1.00 11-10 TO 11-10   **************
05844  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL   3        1.00 10- 1 TO 11- 7    8- 5 TO 10- 3
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OBJECTIVE:  21224  RECALL FROM MEMORY THE BASIC MULTIPLICATION FACTS WITH 2,3,4, OR
                   5 AS ONE FACTOR.

RESOURCE                                                NUMBER    EFF   CHRONOLOGICAL        MENTAL
NUMBER                        TITLES                   OF USES  RATING       AGE               AGE
                                                                (1=HI)  -1SD TO +1SD     -1SD TO +1SD
       MATERIALS
01112  GRADED DIFFICULTY ARITHMETIC PROGRAM SET II     3       2.00 10- 0 TO 14- 8   11- 9*TO*11- 9
01414  MODERN MATHEMATICS, GRADE 3, PART 3             4       3.00  6- 8 TO  9-10    9- 7*TO* 9- 7
01488  FLASH CARDS - MULTIPLICATION                    1       2.00  9- 8 TO  9- 8   **************
01572  MATHFACTS GAMES (KIT OF 5 GAMES)                1       2.00  9- 8 TO  9- 8   **************
01577  ARITHMETIC QUIZMO - MULTIPLY-DIVIDE             1       2.00  9- 8 TO  9- 8   **************
03429  ONE INCH COLORED CUBES - SET OF 100             1       1.00  9- 8 TO  9- 8   **************
04454  CROSS NUMBER PUZZLES - MULTIPLICATION, BEGIN   1       1.00  9- 8 TO  9- 8   **************
05844  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL   2       1.00 11- 1 TO 11- 5    8- 4 TO  9- 4
90270  RED & GREEN GAME BOARD                          1       1.00  9- 8 TO  9- 8   **************
90279  MATCH AND CLIP CHART                            1       1.00  9- 8 TO  9- 8   **************
       METHODS
53251  MULTIPLYING USING DISCS AND CUPS                1     ***.**  9- 8 TO  9- 8   **************
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OBJECTIVE:  21260  RECALL FROM MEMORY MOST MULTIPLICATION AND DIVISION FACTS
                   WITH ONE FACTOR 5 OR LESS.

RESOURCE                                              NUMBER    EFF    CHRONOLOGICAL      MENTAL
NUMBER                       TITLES                   OF USES  RATING       AGE             AGE
                                                               (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
05849  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  4         1.50   8-11 TO 11- 7    7- 0 TO  8- 8
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OBJECTIVE:  21264  RECALL FROM MEMORY ALL BASIC MULTIPLICATION AND DIVISION FACTS
                   WITH ONE FACTOR 5 OR LESS.

                                NO IMPLEMENTATION RECORD 1973-1974


OBJECTIVE:  21279  RECALL FROM MEMORY SOME BASIC MULTIPLICATION AND DIVISION FACTS.

                                NO IMPLEMENTATION RECORD 1973-1974


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OBJECTIVE:  21280  DISCOVER BY COMPUTING ALL BASIC MULTIPLICATION AND DIVISION FACTS.

RESOURCE                                              NUMBER    EFF    CHRONOLOGICAL      MENTAL
NUMBER                       TITLES                   OF USES  RATING       AGE             AGE
                                                               (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
05849  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  4       **1.67   8-10 TO 11- 4    6-10 TO 10-10
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OBJECTIVE: 21283 RECALL FROM MEMORY ALL BASIC MULTIPLICATION AND DIVISION FACTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL 3		**1.50	8- 9 TO 11- 9	6- 7 TO 9- 5

OBJECTIVE: 21284 SOLVE ALL DIVISION WITH REMAINDER PROBLEMS INVOLVING BASIC MULTIPLICATION AND DIVISION FACTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21324 RECALL FROM MEMORY ALL BASIC MULTIPLICATION FACTS WITH ONE FACTOR 5 OR LESS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21325 RECALL FROM MEMORY ALL BASIC MULTIPLICATION FACTS WITH BOTH FACTORS GREATER THAN 5.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21374 DO SOME DIVISION PROBLEMS WITH 2-DIGIT DIVISORS WHEN THE BASIC MULTIPLICATION FACTS FOR THE DIVISOR ARE PROVIDED.

NO IMPLEMENTATION RECORD 1973-1974

F4-03 (CONTINUED)

OBJECTIVE: 21375 DO SOME 2-DIGIT DIVISION PROBLEMS BY FIRST COMPUTING THE BASIC MULTIPLICATION FACTS FOR THEMSELVES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21382 RECALL FROM MEMORY THE BASIC ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION FACTS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90451 THE STUDENT WILL MAINTAIN KNOWN MULTIPLICATION FACTS AND INCREASE TWO FACTS DAILY

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: WESTERN UNIT

OBJECTIVE: 90141 STUDENT WILL WRITE CORRECT ANSWERS TO MULTIPLICATION PROBLEMS INVOLVING NUMBERS 0,1,2

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F4-05 MULT./ONE MULT. WITH CARRYING

SOURCE: HEATH

OBJECTIVE: 21346 MULTIPLY ANY WHOLE NUMBER BY A 1-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21404 MULTIPLY ANY WHOLE NUMBER BY A 1-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18027 MULTIPLY A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER: REGROUPING.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	2	2.00	11- 1 TO 11- 7	9-11 TO 11- 5
05331	MODERN MATHEMATICS THROUGH DISCOVERY LEVEL F	2	2.00	11- 1 TO 11- 7	9-11 TO 11- 5
07021	UNIVERSAL ARITHMETIC 4	1	2.00	11- 6 TO 11- 6	11- 2 TO 11- 2
07686	UNIVERSAL ARITHMETIC - 4	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1

OBJECTIVE: 18028 MULTIPLY A 3-DIGIT NUMBER BY A 1-DIGIT NUMBER: REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

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OBJECTIVE:  18176  MULTIPLY 2-DIGIT NUMBER AND 1-DIGIT NUMBER: REGROUPING TENS

RESOURCE                                                  NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                          TITLES                    OF USES  RATING     AGE              AGE
                                                                   (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     MATERIALS
07700  SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC  1        1.00 10- 1 TO 10- 1   9- 3 TO  9- 3
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OBJECTIVE:  18177  MULTIPLY 2-DIGIT NUMBER AND 1-DIGIT NUMBER: REGROUPING HUNDREDS

RESOURCE                                                  NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                          TITLES                    OF USES  RATING     AGE              AGE
                                                                   (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     MATERIALS
07700  SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC  1        1.00 10- 1 TO 10- 1   9- 3 TO  9- 3
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OBJECTIVE:  18178  MULTIPLY 2-DIGIT NUMBER AND 1-DIGIT NUMBER: REGROUPING
                   TENS AND HUNDREDS

RESOURCE                                                  NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                          TITLES                    OF USES  RATING     AGE              AGE
                                                                   (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     MATERIALS
07700  SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC  1        1.00 10- 1 TO 10- 1   9- 3 TO  9- 3
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OBJECTIVE: 18180 MULTIPLY 3-DIGIT NUMBER AND 1-DIGIT NUMBER: REGROUPING TENS, HUNDREDS, THOUSANDS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
01343	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	3.00	9-11 TO 9-11	8- 2 TO 8- 2
01353	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	3.00	9-11 TO 9-11	8- 2 TO 8- 2

CONTENT AREA: F4-06 MULT./ONE MULT. NO CARRYING

SOURCE: HEATH

OBJECTIVE: 21293 MULTIPLY SOME 2-DIGIT NUMBERS BY 1-DIGIT NUMBERS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.00	8-11 TO 12- 3	6- 4 TO 8- 6

OBJECTIVE: 21295 MULTIPLY ANY 2- OR 3-DIGIT NUMBER BY A 1-DIGIT NUMBER.

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OBJECTIVE:  21295  (CONTINUED)
RESOURCE                                          NUMBER   EFF    CHRONOLOGICAL      MENTAL
NUMBER                     TITLES                 OF USES RATING      AGE              AGE
                                                          (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
01341  ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI  1       1.00 11-10 TO 11-10  **************
01342  ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI  1       1.00 11-10 TO 11-10  **************
01343  ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI  1       2.00 11-10 TO 11-10  **************
05849  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  3       1.67 10- 4 TO 11- 8   6- 9 TO  7- 9
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OBJECTIVE:  21339  MULTIPLY ANY 2- OR 3-DIGIT NUMBER BY A 1-DIGIT NUMBER.

                               NO IMPLEMENTATION RECORD 1973-1974


SOURCE:  SRA


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OBJECTIVE:  18020  MULTIPLY A 1-DIGIT NUMBER BY A 1-DIGIT NUMBER: BOTH
                   FACTORS LESS THAN 5.


RESOURCE                                          NUMBER   EFF    CHRONOLOGICAL      MENTAL
NUMBER                     TITLES                 OF USES RATING      AGE              AGE
                                                          (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
00192  THE NEW PHONICS WE USE, BOOK C, GRADE 2       1       1.00 10- 5 TO 10- 5  **************
00193  THE NEW PHONICS WE USE, BOOK D, GRADE 3       1       1.00 10- 8 TO 10- 8  **************
00194  THE NEW PHONICS WE USE, BOOK E, GRADE 4       1       1.00 10- 8 TO 10- 8  **************
00195  THE NEW PHONICS WE USE, BOOK F, GRADE 5       1       1.00 10- 8 TO 10- 8  **************
00282  FITZHUGH PLUS PROGRAMS, SUBTRACTION, MULTIPL  1       1.00  8- 1 TO  8- 1   8- 5 TO  8- 5
01461  MATHEMATICS STUDY WHEELS                      1       1.00  8- 1 TO  8- 1   8- 5 TO  8- 5
03567  READER 2, TEACHER'S EDITION                   1       2.00 10- 8 TO 10- 8  **************
04447  ARITHMETIC 4                                  1       1.00 10- 8 TO 10- 8  **************
04456  VOWEL SOUNDS                                  1       1.00 10- 5 TO 10- 5  **************
04910  MULTIPLICATION OF ONE-DIGIT BY TWO, THREE, A  1     ***.**  8- 1 TO  8- 1   8- 5 TO  8- 5
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OBJECTIVE: 18020 (CONTINUED)

07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	10- 5 TO 10- 9	**************

OBJECTIVE: 18021 MULTIPLY A 1-DIGIT NUMBER BY A 1-DIGIT NUMBER: ONE FACTOR LESS THAN 5; ONE FACTOR GREATER THAN OR EQUAL TO 5.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0
00195	THE NEW PHONICS WE USE, BOOK F, GRADE 5	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0
00282	FITZHUGH PLUS PROGRAMS, SUBTRACTION, MULTIPL	1	1.00	8- 1 TO 8- 1	8- 5 TO 8- 5
01461	MATHEMATICS STUDY WHEELS	1	1.00	8- 1 TO 8- 1	8- 5 TO 8- 5
05086	TRAIN-ING, FUN WITH NUMBERS, BOOK 5	1	***.**	8- 1 TO 8- 1	8- 5 TO 8- 5
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	12- 2 TO 12- 2	13- 0 TO 13- 0

OBJECTIVE: 18022 MULTIPLY A 1-DIGIT NUMBER BY A 1-DIGIT NUMBER: BOTH FACTORS GREATER THAN OR EQUAL TO 5.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00192	THE NEW PHONICS WE USE, BOOK C, GRADE 2	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	9- 8 TO 12- 8	8- 6 TO 13-10

OBJECTIVE: 18025 MULTIPLY A NUMBER BETWEEN 10 AND 20 BY A 1-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18026 MULTIPLY A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER: NO REGROUPING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18171 MULTIPLY 1-DIGIT NUMBER AND 1-DIGIT NUMBER: SUM OF DIGITS GREATER THAN 10

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18172 MULTIPLY 100 AND 1-DIGIT NUMBER

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00193	THE NEW PHONICS WE USE, BOOK D, GRADE 3	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3
00194	THE NEW PHONICS WE USE, BOOK E, GRADE 4	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3
00195	THE NEW PHONICS WE USE, BOOK F, GRADE 5	1	2.00	10- 1 TO 10- 1	9- 3 TO 9- 3
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	9- 8 TO 12- 8	8- 6 TO 13-10

OBJECTIVE: 18173 MULTIPLY 1-DIGIT NUMBER AND 3-DIGIT MULTIPLE OF 100

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	9- 8 TO 12- 8	8- 6 TO 13-10

OBJECTIVE: 18174 MULTIPLY 2-DIGIT NUMBER AND 1-DIGIT NUMBER: NO REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01342	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	9-11 TO 9-11	8- 2 TO 8- 2
01352	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	3.00	9-11 TO 9-11	8- 2 TO 8- 2
03922	MODERN MATHEMATICS THROUGH DISCOVERY LEVEL T	3	2.00	10-10 TO 11- 6	9- 2 TO 11- 2
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	3	2.00	10-10 TO 11- 6	9- 2 TO 11- 2
07021	UNIVERSAL ARITHMETIC 4	2	2.00	10- 8 TO 11- 8	8-11 TO 11- 7
07686	UNIVERSAL ARITHMETIC - 4	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	9- 8 TO 12- 8	8- 6 TO 13-10

OBJECTIVE: 18175 MULTIPLY 3-DIGIT NUMBER AND 1-DIGIT NUMBER: NO REGROUPING

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OBJECTIVE:  18175  (CONTINUED)
RESOURCE                                       NUMBER    EFF    CHRONOLOGICAL       MENTAL
NUMBER                   TITLES                OF USES  RATING       AGE              AGE
                                                        (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
07700  SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC  2     1.00  9- 8 TO 12- 8   8- 6 TO 13-10
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SOURCE:  WESTERN UNIT


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OBJECTIVE:  90141  STUDENT WILL WRITE CORRECT ANSWERS TO MULTIPLICATION PROBLEMS
                   INVOLVING NUMBERS 0,1,2

RESOURCE                                       NUMBER    EFF    CHRONOLOGICAL       MENTAL
NUMBER                   TITLES                OF USES  RATING       AGE              AGE
                                                        (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
01112  GRADED DIFFICULTY ARITHMETIC PROGRAM SET II   1     1.00 13- 8 TO 13- 8  11- 9 TO 11- 9
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CONTENT AREA:  F4-07 MULT./TWO OR MORE MULT. WITH CARRYING

SOURCE:  HEATH


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OBJECTIVE:  21342  MULTIPLY SOME NUMBERS BY 2-DIGIT NUMBERS.
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OBJECTIVE:  21342  (CONTINUED)
RESOURCE                                                       NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                          TITLES                         OF USES  RATING      AGE              AGE
                                                                        (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
01351  ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI  1       2.00 11-10 TO 11-10  **************
01352  ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI  1       2.00 11-10 TO 11-10  **************
01353  ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI  1       3.00 11-10 TO 11-10  **************
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OBJECTIVE:  21407  MULTIPLY ANY WHOLE NUMBER BY A 2- OR 3-DIGIT NUMBER.

                                  NO IMPLEMENTATION RECORD 1973-1974

SOURCE:  SRA


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OBJECTIVE:  18181  MULTIPLY 2-DIGIT NUMBER AND 2-DIGIT NUMBER: REGROUPING

RESOURCE                                                       NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                          TITLES                         OF USES  RATING      AGE              AGE
                                                                        (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
07700  SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC  1       1.00 10- 1 TO 10- 1   9- 3 TO  9- 3
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OBJECTIVE:  18182  MULTIPLY 3-DIGIT NUMBER AND 3-DIGIT NUMBER: NO REGROUPING
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OBJECTIVE: 18182 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3

OBJECTIVE: 18183 MULTIPLY 3-DIGIT NUMBER AND 2-DIGIT NUMBER: REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3

OBJECTIVE: 18184 MULTIPLY 3-DIGIT NUMBER AND 3-DIGIT NUMBER: NO RESTRICTIONS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3

OBJECTIVE: 18185 MULTIPLY 4-DIGIT NUMBER AND 4-DIGIT NUMBER: NO RESTRICTIONS

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RESOURCE                                            NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                    TITLES                    OF USES  RATING      AGE              AGE
                                                             (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
01100  NOONAN-SPRADLEY DIAGNOSTIC PROGRAM OF           3     **2.50 13- 6 TO 15- 8   7- 4*TO*12-10
01488  FLASH CARDS - MULTIPLICATION                    4     **1.67 13- 8 TO 15- 6   8- 4*TO*12- 4
03008  CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS         11       1.18 13- 3 TO 14-11   9- 1*TO*13-11
03637  FLASH CHARTS - MULTIPLICATION                   2       1.50 13- 0 TO 13- 8  10- 0 TO 10- 0
      METHODS
52823  SRA WHOLE NUMBER MULTIPLICATION                 1     ***.** 13- 4 TO 13- 4  13-11 TO 13-11
52837  MULTIPLYING A VARY NUMBER OF DIGITS             1     ***.** 13- 5 TO 13- 5  **************
      TEST/TASK
00001  APPROPRIATE VERBALIZATIONS                      1       1.00 14- 3 TO 14- 3  12- 1 TO 12- 1
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CONTENT AREA: F4-08 MULT./TWO OR MORE MULT. NO CARRYING

SOURCE: HEATH

OBJECTIVE: 21340 MULTIPLY ANY 2- OR 3-DIGIT NUMBER BY 10 OR 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21341 MULTIPLY SOME NUMBERS BY MULTIPLES OF 10 UP TO 90.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21344 MULTIPLY ANY 2- OR 3-DIGIT NUMBER BY A MULTIPLE OF 10.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21345 MULTIPLY ANY 2- OR 3-DIGIT NUMBER BY A 2-DIGIT NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05854	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	10- 4 TO 10- 4	**************
	TEST/TASK				
00004	HEATH ELEMENTARY MATHEMATICS PROGRAM LEVEL 4	1	2.00	10- 4 TO 10- 4	**************

OBJECTIVE: 21405 MULTIPLY ANY WHOLE NUMBER BY 10 OR 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21406 MULTIPLY ANY WHOLE NUMBER BY A MULTIPLE OF 10 OR 100.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18024 MULTIPLY A 2-DIGIT MULTIPLE OF 10 AND A 3-DIGIT MULTIPLE OF 100 BY A 1-DIGIT NUMBER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18029 MULTIPLY A 2-DIGIT NUMBER BY A 2-DIGIT NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00282	FITZHUGH PLUS PROGRAMS, SUBTRACTION, MULTIPL	1	1.00	8- 1 TO 8- 1	8- 5 TO 8- 5
01461	MATHEMATICS STUDY WHEELS	1	1.00	8- 1 TO 8- 1	8- 5 TO 8- 5
03932	ELEMENTARY SCHOOL MATHEMATICS, BOOK 5	1	1.00	10- 9 TO 10- 9	**************
	TEST/TASK				
00005	ELEMENTARY SCHOOL MATHEMATICS	1	***.**	10- 9 TO 10- 9	**************

OBJECTIVE: 18030 MULTIPLY A 3-DIGIT NUMBER BY A 2-DIGIT NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01343	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	4	3.00	9- 2 TO 10- 8	7-11 TO 10- 5
01353	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	4	3.25	9- 2 TO 10- 8	7-11 TO 10- 5
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	1	2.00	10-10 TO 10-10	9- 3 TO 9- 3
05331	MODERN MATHEMATICS THROUGH DISCOVERY LEVEL F	1	2.00	10-10 TO 10-10	9- 3 TO 9- 3

OBJECTIVE: 18179 MULTIPLY 2-DIGIT NUMBER AND 2-DIGIT NUMBER: NO REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03567	READER 2, TEACHER'S EDITION	1	2.00	10- 8 TO 10- 8	***************
04447	ARITHMETIC 4	1	2.00	10- 8 TO 10- 8	***************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	2	1.00	10- 0 TO 10-10	9- 3*TO* 9- 3

CONTENT AREA: F4-09 MULT./ WITH ZERO

SOURCE: HEATH

OBJECTIVE: 21340 MULTIPLY ANY 2- OR 3-DIGIT NUMBER BY 10 OR 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21341 MULTIPLY SOME NUMBERS BY MULTIPLES OF 10 UP TO 90.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21405 MULTIPLY ANY WHOLE NUMBER BY 10 OR 100.

NO IMPLEMENTATION RECORD 1973-1974

F4-09 (CONTINUED)

OBJECTIVE: 21406 MULTIPLY ANY WHOLE NUMBER BY A MULTIPLE OF 10 OR 100.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18089 COMPLETE MULTIPLICATION SENTENCES INVOLVING ZERO AND ONE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18416 (C) TELL THE RESULT WHEN ZERO IS MULTIPLIED BY A NUMBER

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA.

OBJECTIVE: 18023 USE ZERO AND ONE AS FACTORS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F4-10 MULT./DIVISION INTEGRATION

SOURCE: HEATH

OBJECTIVE: 21262 RELATE MULTIPLICATION AND DIVISION BY WRITING TWO MULTIPLICATION AND TWO DIVISION EQUATIONS FOR A GIVEN TRIPLE OF TWO FACTORS AND A PRODUCT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	4	1.50	9- 9 TO 11- 9	6-11 TO 8- 7

OBJECTIVE: 21328 RELATE MULTIPLICATION AND DIVISION BY WRITING TWO MULTIPLICATION EQUATIONS AND TWO DIVISION EQUATIONS FOR A PRODUCT AND PAIR OF FACTORS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18098 COMPLETE MULTIPLICATION OR DIVISION SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18396 (D-F) WRITE A RELATED DIVISION NUMBER SENTENCE FOR A GIVEN MULTIPLICATION NUMBER SENTENCE

OBJECTIVE: 18396 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01352	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	10- 5 TO 10- 5	9- 6 TO 9- 6
03923	ELEMENTARY SCHOOL MATHEMATICS, BOOK 3	1	2.00	11- 6 TO 11- 6	11- 2 TO 11- 2
04621	MODERN ARITHMETIC, GRADE 2, 2ND PART	1	2.00	11- 6 TO 11- 6	11- 2 TO 11- 2

OBJECTIVE: 18407 (C,D) TELL THE MISSING NUMERAL IN RELATED MULTIPLICATION AND DIVISION EQUATIONS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01112	GRADED DIFFICULTY ARITHMETIC PROGRAM SET II	2	2.00	9- 7 TO 11- 5	10- 1*TO*10- 1
01413	MODERN MATHEMATICS, GRADE 3, PART 2	1	2.00	9-10 TO 9-10	**************
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1
04621	MODERN ARITHMETIC, GRADE 2, 2ND PART	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1
07021	UNIVERSAL ARITHMETIC 4	1	2.00	9-10 TO 9-10	**************

OBJECTIVE: 18409 (B) IDENTIFY THE OPERATION THAT IS THE OPPOSITE OF MULTIPLICATION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18410 (A-D) USE OPPOSITE OPERATIONS TO FIND THE MISSING NUMBERS IN EQUATIONS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01352	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	1.00	10- 5 TO 10- 5	9- 6 TO 9- 6

CONTENT AREA: F4-11 MULT./FACTORS

SOURCE: HEATH

OBJECTIVE: 21354 IDENTIFY THE FACTORS OF SOME WHOLE NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21356 FIND THE COMMON FACTORS OF SOME PAIRS OF NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21359 GIVE THE PRIME FACTORIZATIONS OF SOME WHOLE NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

F4-11 (CONTINUED)

OBJECTIVE: 21423 LIST THE FACTORS OF ALL NUMBERS 1-100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21426 LIST THE COMMON FACTORS OF A PAIR OF NUMBERS BETWEEN 1 AND 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21431 GIVE THE PRIME FACTORIZATIONS OF MANY NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21466 LIST ALL OF THE FACTORS OF ANY NUMBER LESS THAN 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21468 LIST THE COMMON FACTORS OF TWO NUMBERS LESS THAN 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21469 FIND THE GREATEST COMMON FACTOR OF TWO NUMBERS LESS THAN 100.

NO IMPLEMENTATION RECORD 1973-1974

F4-11 (CONTINUED)

SOURCE: SRA

OBJECTIVE: 18379 (A,B) IDENTIFY A NUMBER, GIVEN THE SET OF FACTORS OF THE NUMBER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18380 (C) IDENTIFY THE COMMON FACTORS, GIVEN TWO SETS OF FACTORS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18381 (D) IDENTIFY THE GREATEST COMMON FACTOR, GIVEN TWO SETS OF FACTORS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18385 (A,B) IDENTIFY THE GREATEST COMMON FACTOR OF A PAIR OF NUMBERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18388 (A,B) IDENTIFY THE PRIME FACTORS OF A COMPOSITE NUMBER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18389 (A) IDENTIFY A COMPOSITE NUMBER IN TERMS OF NUMBER OF FACTORS

NO IMPLEMENTATION RECORD 1973-1974

F4-11 (CONTINUED)

OBJECTIVE: 18391 (A-F) COMPLETE FACTOR TREES TO IDENTIFY THE PRIME FACTORS OF 12 AND 36

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18393 (A-D) EXPRESS A PRODUCT WITH A REPEATED FACTOR IN EXPONENTIAL FORM

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F4-12 MULT./MULTIPLES

SOURCE: HEATH

OBJECTIVE: 21341 MULTIPLY SOME NUMBERS BY MULTIPLES OF 10 UP TO 90.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21344 MULTIPLY ANY 2- OR 3-DIGIT NUMBER BY A MULTIPLE OF 10.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21352 LIST SOME MULTIPLES OF THE WHOLE NUMBERS 1-10.

NO IMPLEMENTATION RECORD 1973-1974

F4-12 (CONTINUED)

OBJECTIVE: 21358 LIST MANY MULTIPLES OF ANY WHOLE NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21406 MULTIPLY ANY WHOLE NUMBER BY A MULTIPLE OF 10 OR 100.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21427 LIST SOME MULTIPLES OF ANY NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21428 LIST SOME COMMON MULTIPLES OF SOME PAIRS OF NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21470 LIST SOME MULTIPLES OF ANY NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21471 LIST COMMON MULTIPLES OF TWO NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

F4-12 (CONTINUED)

OBJECTIVE: 21472 FIND THE LEASE COMMON MULTIPLE OF TWO NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18382 (A,B) IDENTIFY A NUMBER, GIVEN A SET OF MULTIPLES OF THE NUMBER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18383 (C) IDENTIFY THE COMMON MULTIPLES, GIVEN TWO SETS OF MULTIPLES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18384 (D) IDENTIFY THE LEAST COMMON MULTIPLE, GIVEN TWO SETS OF MULTIPLES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18386 (C) IDENTIFY THE LEAST COMMON MULTIPLE OF A PAIR OF NUMBERS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F5-01 DIVISION (GENERAL TERM)

SOURCE: HEATH

OBJECTIVE: 21259 WRITE TWO DIVISION EQUATIONS FOR A SITUATION INVOLVING SEVERAL SETS WITH THE SAME NUMBER OF ELEMENTS IN EACH SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21265 SOLVE NEW DIVISION PROBLEMS BY REPEATED SUBTRACTION.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	6	1.50	9- 4 TO 11- 6	7- 0 TO 8- 4

OBJECTIVE: 21282 SOLVE SOME PRACTICAL PROBLEMS USING MULTIPLICATION OR DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21284 SOLVE ALL DIVISION WITH REMAINDER PROBLEMS INVOLVING BASIC MULTIPLICATION AND DIVISION FACTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21298 DO SOME VERY SIMPLE LONG DIVISION PROBLEMS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01341	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	11-10 TO 11-10	**************
01342	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	11-10 TO 11-10	**************
01343	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	3.00	11-10 TO 11-10	**************
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	2.50	10- 6 TO 12- 0	6- 6 TO 7- 8

OBJECTIVE: 21351 SOLVE SIMPLE PRACTICAL PROBLEMS THAT REQUIRE DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21377 SOLVE SOME PRACTICAL PROBLEMS BY USING LONG DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21419 SOLVE SOME PRACTICAL PROBLEMS BY DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21421 ESTIMATE SOME QUOTIENTS TO A REASONABLE DEGREE OF ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

F5-01 (CONTINUED)

OBJECTIVE: 21476 DIVIDE ANY NUMBER, INCLUDING ONE IN DECIMAL FORM, BY A 1- OR 2-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21524 DIVIDE ANY NUMBER IN DECIMAL FORM BY A DECIMAL FRACTION WITH EXACTLY ONE SIGNIFICANT DIGIT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21526 DIVIDE ANY TWO NUMBERS IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18090 WRITE DIVISION SENTENCES TO DESCRIBE DIVISION OF SETS INTO EQUIVALENT SUBSETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18091 WRITE DIVISION SENTENCES TO DESCRIBE DIVISION ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18092 WRITE DIVISION SENTENCES TO DESCRIBE REPEATED SUBTRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18304 DIVIDE 2-DIGIT DECIMAL OR 3-DIGIT DECIMAL BY 1 WHOLE NUMBER: DIVIDES EXACTLY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18305 DIVIDE 2-DIGIT DECIMAL BY .1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18306 DIVIDE 3-DIGIT DECIMAL BY .001

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18307 DIVIDE 2-DIGIT DECIMAL OR 3-DIGIT DECIMAL BY 1-DIGIT DECIMAL: DIVIDES EXACTLY

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
07623	DECIMALS: UNDERSTANDING & OPERATIONS - STUDE	1	1.00	11- 6 TO 11- 6	13- 1 TO 13- 1

F5-01 (CONTINUED)

OBJECTIVE: 18308 DIVIDE 3-DIGIT DECIMAL BY 2-DIGIT DECIMAL: DIVIDES EXACTLY; STUDENT MAY ADD ZEROS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18309 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT DECIMAL: DIVIDES EXACTLY; STUDENT MAY ADD ZEROS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18310 DIVIDE 3-DIGIT DECIMAL BY 1-DIGIT DECIMAL: STUDENT MUST ADD ZEROS TO OBTAIN EXACT QUOTIENT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18311 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT DECIMAL: STUDENT MUST ADD ZEROS TO OBTAIN EXACT QUOTIENT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18312 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT WHOLE NUMBER: QUOTIENT GIVEN; STUDENT INSERTS DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

F5-01 (CONTINUED)

OBJECTIVE: 18313 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT DECIMAL: QUOTIENT GIVEN; STUDENT INSERTS DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18314 DIVIDE 3-DIGIT DECIMAL BY DECIMAL WITH 1 SIGNIFICANT DIGIT: STUDENT MUST ADD ZEROS TO OBTAIN QUOTIENT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18315 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT DECIMAL: ROUNDING TO HUNDREDTHS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18316 DIVIDE 4-DIGIT DECIMAL BY 3-DIGIT DECIMAL: ROUNDING TO HUNDREDTHS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18417 (D) TELL WHAT NUMBER USED AS A DIVISOR ALWAYS GIVES THE ORIGINAL DIVIDEND AS QUOTIENT

NO IMPLEMENTATION RECORD 1973-1974

F5-01 (CONTINUED)

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90246 THE STUDENT WILL BE ABLE TO COMPLETE EACH INDIVIDUAL SRA DIVISION PUZZLE CARD.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: WESTERN UNIT

OBJECTIVE: 90687 GIVEN A SERIES OF WORDS, THE STUDENT CORRECTLY PUTS THE WORDS INTO ALPHABETICAL ORDER.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F5-02 DIVISION FACTS

SOURCE: HEATH

OBJECTIVE: 21260 RECALL FROM MEMORY MOST MULTIPLICATION AND DIVISION FACTS WITH ONE FACTOR 5 OR LESS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21261 USE MULTIPLICATION OR DIVISION TO SOLVE SIMPLE PRACTICAL PROBLEMS.

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OBJECTIVE:  21261   (CONTINUED)
RESOURCE                                                    NUMBER     EFF   CHRONOLOGICAL        MENTAL
NUMBER                           TITLES                     OF USES   RATING      AGE               AGE
                                                                      (1=HI)  -1SD TO +1SD    -1SD TO +1SD
         MATERIALS
01489  FLASH CARDS - DIVISION                                  1       1.00 10- 7 TO 10- 7   **************
05849  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL            6       1.50  9- 4 TO 11- 6    7- 1*TO* 8- 5
05851  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL            1       1.00 10- 7 TO 10- 7   **************
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OBJECTIVE:  21264   RECALL FROM MEMORY ALL BASIC MULTIPLICATION AND DIVISION FACTS
                    WITH ONE FACTOR 5 OR LESS.

RESOURCE                                                    NUMBER     EFF   CHRONOLOGICAL        MENTAL
NUMBER                           TITLES                     OF USES   RATING      AGE               AGE
                                                                      (1=HI)  -1SD TO +1SD    -1SD TO +1SD
         MATERIALS
05849  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL            5       1.60  9- 2 TO 11- 6    7- 1 TO  8- 5
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OBJECTIVE:  21279   RECALL FROM MEMORY SOME BASIC MULTIPLICATION AND DIVISION FACTS.

RESOURCE                                                    NUMBER     EFF   CHRONOLOGICAL        MENTAL
NUMBER                           TITLES                     OF USES   RATING      AGE               AGE
                                                                      (1=HI)  -1SD TO +1SD    -1SD TO +1SD
         MATERIALS
05849  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL            4       1.75  8-10 TO 11- 4    6-10 TO 10-10
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OBJECTIVE: 21280 DISCOVER BY COMPUTING ALL BASIC MULTIPLICATION AND DIVISION FACTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21283 RECALL FROM MEMORY ALL BASIC MULTIPLICATION AND DIVISION FACTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21284 SOLVE ALL DIVISION WITH REMAINDER PROBLEMS INVOLVING BASIC MULTIPLICATION AND DIVISION FACTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	3	1.67	8- 9 TO 11- 9	6- 7 TO 9- 5

OBJECTIVE: 21326 RECALL FROM MEMORY ALL BASIC DIVISION FACTS WITH ONE FACTOR 5 OR LESS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21327 RECALL FROM MEMORY ALL BASIC DIVISION FACTS WITH BOTH FACTORS GREATER THAN 5.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21376 DO MANY 2-DIGIT DIVISION PROBLEMS USING THE STANDARD SHORTCUTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05854	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	9- 9 TO 9- 9	**************

OBJECTIVE: 21382 RECALL FROM MEMORY THE BASIC ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION FACTS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90246 THE STUDENT WILL BE ABLE TO COMPLETE EACH INDIVIDUAL SRA DIVISION PUZZLE CARD.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03008	CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS	1	1.00	14- 8 TO 14- 8	11- 5 TO 11- 5

OBJECTIVE: 90436 THE STUDENT WILL KNOW THE DIVISION FACTS 2 TO 9.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01460	CYCLO-TEACHER MACHINE	1	2.00	11- 6 TO 11- 6	13- 1 TO 13- 1
03638	FLASH CHARTS - DIVISION	1	2.00	11- 6 TO 11- 6	13- 1 TO 13- 1
04948	THE WINNING TOUCH	1	2.00	11- 6 TO 11- 6	13- 1 TO 13- 1
07559	MULTIPLICATION/DIVISION MATH PATH	1	2.00	11- 6 TO 11- 6	13- 1 TO 13- 1

CONTENT AREA: F5-03 DIV./HORIZONTAL

SOURCE: SRA

OBJECTIVE: 18031 DIVIDE A 1-DIGIT NUMBER BY A 1-DIGIT NUMBER: NO REMAINDER: HORIZONTAL FORMAT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18032 DIVIDE A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER: 1 DIGIT QUOTIENT: NO REMAINDER: HORIZONTAL FORMAT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	1	2.00	10-10 TO 10-10	9- 3 TO 9- 3
05331	MODERN MATHEMATICS THROUGH DISCOVERY LEVEL F	1	2.00	10-10 TO 10-10	9- 3 TO 9- 3
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3

OBJECTIVE: 18033 USE THE DIVISION ALGORITHM.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
03003	LISTENING SKILLS PROGRAM, RECORD, GRADE 3, I	1	1.00	11- 6 TO 11- 6	13- 1 TO 13- 1
07622	DIVISION OF WHOLE NUMBERS - STUDENT STUDY BO	1	1.00	11- 6 TO 11- 6	13- 1 TO 13- 1

CONTENT AREA: F5-04 DIV./ONE PLACE DIV./ONE PLACE DIVIDEND/ONE PLACE Q.

SOURCE: HEATH

OBJECTIVE: 21349 DIVIDE ANY 2-DIGIT NUMBER BY A 1-DIGIT NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05854	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	2.00	10- 7 TO 11- 1	7- 6*TO* 7- 6

SOURCE: SRA

OBJECTIVE: 18031 DIVIDE A 1-DIGIT NUMBER BY A 1-DIGIT NUMBER:
NO REMAINDER: HORIZONTAL FORMAT.

OBJECTIVE: 18031 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
01489	FLASH CARDS - DIVISION	1	1.00	8-10 TO 8-10	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3

CONTENT AREA: F5-05 DIV./ONE PLACE DIV./TWO PLACE DIVIDENT/ONE PLACE Q.

SOURCE: HEATH

OBJECTIVE: 21350 DIVIDE SOME 3-DIGIT NUMBERS BY A 1-DIGIT NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
01576	ARITHMETIC QUIZMO - ADD-SUBTRACT	1	1.00	11- 4 TO 11- 4	10- 5 TO 10- 5
04447	ARITHMETIC 4	2	1.50	11- 4 TO 11- 4	10- 5 TO 10- 5
04948	THE WINNING TOUCH	1	1.00	11- 4 TO 11- 4	10- 5 TO 10- 5
05854	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	3	2.00	9- 1 TO 10- 7	7- 6 TO 8- 4
07622	DIVISION OF WHOLE NUMBERS - STUDENT STUDY BO	1	2.00	11- 4 TO 11- 4	10- 5 TO 10- 5

OBJECTIVE: 21417 DIVIDE ANY WHOLE NUMBER BY A 1-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18032 DIVIDE A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER: 1 DIGIT QUOTIENT; NO REMAINDER; HORIZONTAL FORMAT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18035 DIVIDE A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER: 1 DIGIT QUOTIENT; REMAINDER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18038 DIVIDE A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER: 2-DIGIT QUOTIENT; REMAINDER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01112	GRADED DIFFICULTY ARITHMETIC PROGRAM SET II	2	1.50	11- 1 TO 11- 7	9-11 TO 11- 5
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	1	2.00	9-10 TO 9-10	**************
05331	MODERN MATHEMATICS THROUGH DISCOVERY LEVEL F	1	2.00	9-10 TO 9-10	**************
07021	UNIVERSAL ARITHMETIC 4	3	2.00	9-11 TO 11- 9	9-11*TO*11- 5

OBJECTIVE: 18186 DIVIDE 2-DIGIT NUMBER BY 1-DIGIT NUMBER: QUOTIENT LESS THAN 10; NO REMAINDER

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01489	FLASH CARDS - DIVISION	1	1.00	12- 8 TO 12- 8	9-11 TO 9-11
04189	PLDK, LEVEL 3 MINNIE BIRD PUPPET	1	1.00	10-10 TO 10-10	8- 4 TO 8- 4

CONTENT AREA: F5-06 DIV./ONE PLACE DIV./2 OR MORE PLACE DIVIDEND/2 OR MORE PLACE Q.

SOURCE: HEATH

OBJECTIVE: 21417 DIVIDE ANY WHOLE NUMBER BY A 1-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18034 DIVIDE A 3-DIGIT MULTIPLE OF 10 OR 100 BY A 1-DIGIT NUMBER: ONE NONZERO DIGIT IN QUOTIENT; NO REMAINDER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3

OBJECTIVE: 18036 DIVIDE A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER:
2-DIGIT QUOTIENT; WITH OR WITHOUT REGROUPING;
NO REMAINDER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	11- 4 TO 11- 4	10- 5 TO 10- 5
07622	DIVISION OF WHOLE NUMBERS - STUDENT STUDY BD	1	2.00	11- 4 TO 11- 4	10- 5 TO 10- 5

OBJECTIVE: 18037 DIVIDE A 3-DIGIT NUMBER BY A 1-DIGIT NUMBER:
2-DIGIT QUOTIENT; WITH OR WITHOUT REGROUPING;
NO REMAINDER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01340	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	8- 8 TO 8- 8	**************
01650	DIAL THE FACTS 1-16 SPECIMEN SET	1	2.00	8- 8 TO 8- 8	**************
03076	ARITHMETIC READINESS CARDS - DIVISION BASIC	1	***.**	8- 8 TO 8- 8	**************
07700	SEQUENTIAL MATHEMATICS: ADDITION AND SUBTRAC	1	1.00	10- 1 TO 10- 1	9- 3 TO 9- 3

OBJECTIVE: 18039 DIVIDE A 3-DIGIT NUMBER BY A 1-DIGIT NUMBER:
2-DIGIT QUOTIENT; REMAINDER.

NO IMPLEMENTATION RECORD 1973-1974

F5-06 (CONTINUED)

OBJECTIVE: 18187 DIVIDE 2-DIGIT NUMBER BY 1-DIGIT NUMBER: 2-DIGIT QUOTIENT; NO REGROUPING; NO REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18188 DIVIDE 2-DIGIT NUMBER BY 1-DIGIT NUMBER: 2-DIGIT QUOTIENT; REGROUPING TENS; NO REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18190 DIVIDE 2-DIGIT NUMBER BY 1-DIGIT NUMBER: 2-DIGIT QUOTIENT; NO REGROUPING; REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18192 DIVIDE 2-DIGIT NUMBER BY 1-DIGIT NUMBER: 2-DIGIT QUOTIENT; REGROUPING; REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18193 DIVIDE 3-DIGIT NUMBER BY 1-DIGIT NUMBER: 3-DIGIT QUOTIENT; NO REGROUPING; NO REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18194 DIVIDE 4-DIGIT NUMBER BY 1-DIGIT NUMBER: 3-DIGIT QUOTIENT: NO REGROUPING: NO REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18195 DIVIDE 3-DIGIT NUMBER BY 1-DIGIT NUMBER: 3-DIGIT QUOTIENT: REGROUPING TENS: REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18196 DIVIDE 4-DIGIT NUMBER BY 1-DIGIT NUMBER: 3-DIGIT QUOTIENT: REGROUPING HUNDREDS AND TENS: REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F5-07 DIV./2 PLACE DIV./2 PLACE DIVIDEND/ONE PLACE Q.

SOURCE: HEATH

OBJECTIVE: 21374 DO SOME DIVISION PROBLEMS WITH 2-DIGIT DIVISORS WHEN THE BASIC MULTIPLICATION FACTS FOR THE DIVISOR ARE PROVIDED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21375 DO SOME 2-DIGIT DIVISION PROBLEMS BY FIRST COMPUTING THE BASIC MULTIPLICATION FACTS FOR THEMSELVES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21418 DIVIDE BY SOME 2-DIGIT NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21420 DIVIDE ANY WHOLE NUMBER BY A 2-DIGIT NUMBER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05854	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 0 TO 11- 0	**************

CONTENT AREA: F5-08 DIV./2 OR MORE PL DIV./2 MORE PL. DIVIDENT/2 OR MORE PL. Q.

SOURCE: HEATH

OBJECTIVE: 21479 DIVIDE BY 3-DIGIT WHOLE NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18040 DIVIDE A 3-DIGIT OR A 4-DIGIT NUMBER BY A
2-DIGIT NUMBER: REMAINDER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18189 DIVIDE 2-DIGIT NUMBER BY 2-DIGIT MULTIPLE OF 10: REMAINDER GREATER THAN OR EQUAL TO 10

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18191 DIVIDE 2-DIGIT NUMBER BY 2-DIGIT NUMBER: REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18197 DIVIDE 3-DIGIT NUMBER BY 2-DIGIT NUMBER: QUOTIENT A MULTIPLE OF 10: REMAINDER GREATER THAN OR EQUAL TO 10

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	3	2.00	10-10 TO 11- 6	9- 2 TO 11- 2
05331	MODERN MATHEMATICS THROUGH DISCOVERY LEVEL F	3	2.00	10-10 TO 11- 6	9- 2 TO 11- 2
07021	UNIVERSAL ARITHMETIC 4	2	2.00	10- 6 TO 11- 8	8-11 TO 11- 7
07686	UNIVERSAL ARITHMETIC - 4	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1

OBJECTIVE: 18198 DIVIDE 4-DIGIT NUMBER BY 2-DIGIT NUMBER: 3-DIGIT QUOTIENT: REGROUPING: REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18199 DIVIDE 5-DIGIT NUMBER BY 3-DIGIT NUMBER: NO RESTRICTIONS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01100	NOONAN-SPRADLEY DIAGNOSTIC PROGRAM OF	3	1.67	14- 4 TO 15- 5	8- 4 TO 12- 4
03008	CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS	7	**1.33	13- 4 TO 15- 0	9- 2 TO 12-10
03222	FLASH CARDS FOR THE NEW MATHEMATICS-DIVISION	1	2.00	15- 7 TO 15- 7	12- 0 TO 12- 0
	METHODS				
53523	HIDE THE THIMBLE	2	***.**	13- 1 TO 13- 5	9- 3 TO 14- 9

SOURCE: WESTERN UNIT

OBJECTIVE: 90726 THE STUDENT WILL DIVIDE 3 DIGIT NUMERAL BY 2 DIGIT: NO REMAINDER

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1
05331	MODERN MATHEMATICS THROUGH DISCOVERY LEVEL F	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1
07686	UNIVERSAL ARITHMETIC - 4	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1

CONTENT AREA: F5-09 DIV./WITH ZERO

SOURCE: SRA

OBJECTIVE: 18034 DIVIDE A 3-DIGIT MULTIPLE OF 10 OR 100 BY A 1-DIGIT NUMBER: ONE NONZERO DIGIT IN QUOTIENT: NO REMAINDER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18094 USE ZERO AND ONE IN DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F5-10 REMAINDERS

SOURCE: HEATH

OBJECTIVE: 21281 SOLVE SOME DIVISION WITH REMAINDER PROBLEMS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1*HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	4	**1.33	8-10 TO 11- 4	6-10 TO 10-10

OBJECTIVE: 21284 SOLVE ALL DIVISION WITH REMAINDER PROBLEMS INVOLVING BASIC MULTIPLICATION AND DIVISION FACTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21285 WRITE MULTIPLICATION-ADDITION EQUATIONS FOR DIVISION-WITH REMAINDER PROBLEMS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	3	1.67	8- 9 TO 11- 9	6- 7 TO 9- 5

OBJECTIVE: 21347 DO ALL SIMPLE DIVISION-WITH-REMAINDER PROBLEMS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05854	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.50	9- 2 TO 11- 0	7- 4 TO 8- 4

OBJECTIVE: 21348 CHECK A DIVISION-WITH-REMAINDER PROBLEM BY MULTIPLYING AND ADDING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21416 DO ALL BASIC DIVISION-WITH-REMAINDER PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18035 DIVIDE A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER:
1 DIGIT QUOTIENT; REMAINDER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01112	GRADED DIFFICULTY ARITHMETIC PROGRAM SET II	3	1.67	9-11 TO 11- 9	9-11*TO*11- 5
01413	MODERN MATHEMATICS, GRADE 3, PART 2	1	2.00	9-10 TO 9-10	**************
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	3	**2.00	9-11 TO 11- 3	9- 1*TO*10- 3
05331	MODERN MATHEMATICS THROUGH DISCOVERY LEVEL F	3	2.00	9-11 TO 11- 3	9- 1*TO*10- 3
07021	UNIVERSAL ARITHMETIC 4	5	2.00	9-11 TO 11- 5	9- 2*TO*11- 2
07686	UNIVERSAL ARITHMETIC - 4	1	2.00	11- 2 TO 11- 2	10- 1 TO 10- 1

OBJECTIVE: 18038 DIVIDE A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER:
2-DIGIT QUOTIENT; REMAINDER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18039 DIVIDE A 3-DIGIT NUMBER BY A 1-DIGIT NUMBER:
2-DIGIT QUOTIENT; REMAINDER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18040 DIVIDE A 3-DIGIT OR A 4-DIGIT NUMBER BY A 2-DIGIT NUMBER: REMAINDER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01343	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	4	3.00	9- 2 TO 10- 8	7-11 TO 10- 5
01353	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	3	3.33	9- 0 TO 10-10	7- 6 TO 10- 8
03930	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4	1	2.00	10-10 TO 10-10	9- 3 TO 9- 3
05331	MODERN MATHEMATICS THROUGH DISCOVERY LEVEL F	1	2.00	10-10 TO 10-10	9- 3 TO 9- 3
07021	UNIVERSAL ARITHMETIC 4	1	2.00	10-10 TO 10-10	9- 3 TO 9- 3

OBJECTIVE: 18190 DIVIDE 2-DIGIT NUMBER BY 1-DIGIT NUMBER: 2-DIGIT QUOTIENT: NO REGROUPING: REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18191 DIVIDE 2-DIGIT NUMBER BY 2-DIGIT NUMBER: REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18192 DIVIDE 2-DIGIT NUMBER BY 1-DIGIT NUMBER: 2-DIGIT QUOTIENT: REGROUPING: REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18195 DIVIDE 3-DIGIT NUMBER BY 1-DIGIT NUMBER: 3-DIGIT QUOTIENT; REGROUPING TENS; REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18196 DIVIDE 4-DIGIT NUMBER BY 1-DIGIT NUMBER: 3-DIGIT QUOTIENT; REGROUPING HUNDREDS AND TENS; REMAINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18197 DIVIDE 3-DIGIT NUMBER BY 2-DIGIT NUMBER: QUOTIENT A MULTIPLE OF 10; REMAINDER GREATER THAN OR EQUAL TO 10

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18198 DIVIDE 4-DIGIT NUMBER BY 2-DIGIT NUMBER: 3-DIGIT QUOTIENT; REGROUPING; REMAINDER

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01430	CUISENAIRE CUBES, SQUARES AND RODS	1	1.00	11- 5 TO 11- 5	**************
01572	MATHFACTS GAMES (KIT OF 5 GAMES)	1	1.00	11- 5 TO 11- 5	**************
05859	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	11- 5 TO 11- 5	**************
90286	EVERYTHING BOARD	1	1.00	11- 5 TO 11- 5	**************

F5-10 (CONTINUED)

OBJECTIVE: 18199 DIVIDE 5-DIGIT NUMBER BY 3-DIGIT NUMBER: NO RESTRICTIONS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F5-11 DIV./MULTIPLICATION INTEGRATION

SOURCE: HEATH

OBJECTIVE: 21262 RELATE MULTIPLICATION AND DIVISION BY WRITING TWO MULTIPLICATION AND TWO DIVISION EQUATIONS FOR A GIVEN TRIPLE OF TWO FACTORS AND A PRODUCT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21328 RELATE MULTIPLICATION AND DIVISION BY WRITING TWO MULTIPLICATION EQUATIONS AND TWO DIVISION EQUATIONS FOR A PRODUCT AND PAIR OF FACTORS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-01 DECIMAL/PERCENT INTEGRATION

SOURCE: HEATH

OBJECTIVE: 21536 CHANGE FROM PERCENTS TO FRACTIONS AND DECIMALS AND VICE VERSA.

NO IMPLEMENTATION RECORD 1973-1974

F6-01 (CONTINUED)

SOURCE: SRA

OBJECTIVE: 18348 (A,B) USE A 10X10 SHADED GRID TO DESCRIBE TENTHS AND HUNDREDTHS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18349 (C,D) USE A 10X10 SHADED GRID TO DESCRIBE A DECIMAL AND A PERCENTATE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18427 (A-C) WRITE RATIOS FOR A GIVEN COLLECTION OF OBJECTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18428 (A-F) WRITE EQUIVALENT RATIOS FOR A GIVEN RATIO

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18429 (A,B) EXPRESS RATIOS INVOLVING MEASURE

NO IMPLEMENTATION RECORD 1973-1974

F6-01 (CONTINUED)

OBJECTIVE: 18430 (C) EXPRESS THE RATIO OF TWO LINE SEGMENTS, GIVEN BOTH MEASURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18431 (A,B) GIVE THE CORRESPONDING SIDES OF ONE TRIANGLE BY USING THE PROPORTION/RATIO RULE AND THE MEASURE OF A SIMILAR TRIANGLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18432 (A-C) COMPLETE A RATE CHART

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18433 (A-D) GIVE THE COST OF TWO ITEMS WHEN THE RATE FOR SEVERAL ITEMS IS GIVEN

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18434 (A,B) COMPUTE INTEREST ON A GIVEN AMOUNT OF MONEY WHEN THE INTEREST RATE IS GIVEN

NO IMPLEMENTATION RECORD 1973-1974

F6-01 (CONTINUED)

OBJECTIVE: 18435 (A-D) DECIDE WHETHER PROPORTIONS ARE TRUE OR FALSE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18436 (A-D) SOLVE PROPORTIONS BY REPLACING THE FRAME WITH THE CORRECT NUMERAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18437 (A,B) USE RATE TO COMPUTE THE TIME REQUIRED TO TRAVEL A CERTAIN DISTANCE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18438 (A,B) DETERMINE ACTUAL DISTANCE WHEN GIVEN A MAP SCALE

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-02 DECIMALS (GENERAL TERM)

SOURCE: HEATH

OBJECTIVE: 21323 USE DECIMALS TO WRITE ABOUT SOME MEASUREMENTS IN THE METRIC SYSTEM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21448 READ AND WRITE DECIMALS WITH DIGITS IN THE TENTHS PLACE OR IN BOTH THE TENTHS AND HUNDREDTHS PLACES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21449 USE DECIMALS TO WRITE ABOUT TENTHS AND HUNDREDTHS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21450 ADD AND SUBTRACT WITH DECIMALS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21456 READ AND WRITE DECIMALS WITH DIGITS IN THE TENTHS, HUNDREDTHS, THOUSANDTHS PLACES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21457 USE DECIMALS TO EXPRESS TENTHS, HUNDREDTHS, AND THOUSANDTHS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21458 ORDER NUMBERS WRITTEN IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 21473 ADD ANY TWO NUMBERS GIVEN IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21474 SUBTRACT ANY TWO NUMBERS GIVEN IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21475 MULTIPLY ANY NUMBER INCLUDING ONE IN DECIMAL FORM, A) BY A ONE-DIGIT NUMBER, OR A MULTIPLE OF 10 OR 100: B) BY ANY TWO-OR THREE-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21476 DIVIDE ANY NUMBER, INCLUDING ONE IN DECIMAL FORM, BY A 1- OR 2-DIGIT NUMBER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21523 MULTIPLY TWO NUMBERS IN DECIMAL FORM WHEN ONE HAS AT MOST THREE SIGNIFICANT DIGITS.

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 21524 DIVIDE ANY NUMBER IN DECIMAL FORM BY A DECIMAL FRACTION WITH EXACTLY ONE SIGNIFICANT DIGIT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21525 MULTIPLY ANY TWO NUMBERS IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21526 DIVIDE ANY TWO NUMBERS IN DECIMAL FORM.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18260 DIVIDE MIXED NUMBER BY MIXED NUMBER:
QUOTIENT GREATER THAN 1: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18261 ADD TWO 1-DIGIT DECIMALS (VERTICAL): SUM OF DIGITS LESS THAN 10

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18263 ADD TWO 2-DIGIT DECIMALS (VERTICAL): ALIGN AT RIGHT: REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18264 ADD TWO 3-DIGIT DECIMALS (VERTICAL): ALIGN AT RIGHT: REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
01391	ARITHMETIC STEP BY STEP, KIT B, GRAPHS, DECI	1	3.00	13- 1 TO 13- 1	**************
07701	NEW DIMENSIONS IN MATHEMATICS - BOOK 1	1	2.00	13- 1 TO 13- 1	**************

OBJECTIVE: 18265 ADD TWO 1-DIGIT DECIMALS (HORIZONTAL): ALIGN AT RIGHT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18266 ADD 2-DIGIT DECIMAL AND 1-DIGIT DECIMAL (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18267 ADD TWO 2-DIGIT DECIMALS (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 18268 ADD TWO 3-DIGIT DECIMALS (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18269 ADD TWO DECIMALS (HORIZONTAL): VARYING NUMBER OF DIGITS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18270 ADD TWO 4-DIGIT DECIMALS (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18271 ADD THREE 4-DIGIT DECIMALS (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18272 ADD THREE DECIMALS (HORIZONTAL): VARYING NUMBER OF DIGITS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18273 ADD FOUR DECIMALS (HORIZONTAL): VARYING NUMBER DIGITS

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 18274 SUBTRACT 2-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (VERTICAL): NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18275 SUBTRACT 2-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (VERTICAL): ALIGN AT RIGHT; REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18276 SUBTRACT 3-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (VERTICAL): NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18277 SUBTRACT 3-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (VERTICAL): ALIGN AT RIGHT; REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18278 SUBTRACT 3-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (VERTICAL)

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 18279 SUBTRACT 2-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (HORIZONTAL): ALIGN AT RIGHT; NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18280 SUBTRACT 3-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (HORIZONTAL): ALIGN AT RIGHT; NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18281 SUBTRACT 2-DIGIT DECIMAL FROM 3-DIGIT (HORIZONTAL): ALIGN AT RIGHT; NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18282 SUBTRACT 2-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (HORIZONTAL): ALIGN AT RIGHT; REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18283 SUBTRACT 1-DIGIT DECIMAL FROM 1-DIGIT WHOLE NUMBER (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 18284 SUBTRACT 2-DIGIT DECIMAL FROM 2-DIGIT WHOLE NUMBER (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18285 SUBTRACT 3-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (HORIZONTAL): REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18286 SUBTRACT 4-DIGIT DECIMAL FROM 4-DIGIT DECIMAL (HORIZONTAL): REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18287 SUBTRACT 3-DIGIT DECIMAL FROM 2-DIGIT DECIMAL (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18288 SUBTRACT 4-DIGIT DECIMAL FROM 3-DIGIT DECIMAL (HORIZONTAL)

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 18289 MULTIPLY 1-DIGIT WHOLE NUMBER AND .1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18290 MULTIPLY 2-DIGIT WHOLE NUMBER AND .01

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18291 MULTIPLY 3-DIGIT DECIMAL AND .1 OR .01

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18292 MULTIPLY 3-DIGIT WHOLE NUMBER AND 3-DIGIT DECIMAL: NO LEADING ZEROS IN PRODUCT GIVEN; STUDENT INSERTS DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18293 MULTIPLY 3-DIGIT DECIMAL AND 3-DIGIT DECIMAL: NO LEADING ZEROS IN PRODUCT GIVEN; STUDENT INSERTS DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18294 MULTIPLY 2-DIGIT WHOLE NUMBER AND DECIMAL WITH 3 SIGNIFICANT DIGITS: PRODUCT GIVEN; STUDENT INSERTS DECIMAL POINT AND LEADING ZEROS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
01391	ARITHMETIC STEP BY STEP, KIT B, GRAPHS, DECI	1	2.00	13- 1 TO 13- 1	***************
07701	NEW DIMENSIONS IN MATHEMATICS - BOOK 1	1	3.00	13- 1 TO 13- 1	***************

OBJECTIVE: 18295 MULTIPLY 3-DIGIT DECIMAL AND DECIMAL WITH 1 SIGNIFICANT DIGIT: PRODUCT GIVEN; STUDENT INSERTS DECIMAL POINT AND LEADING ZEROS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18296 MULTIPLY WHOLE NUMBER WITH 1 NONZERO DIGIT AND 1-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18297 MULTIPLY 1-DIGIT DECIMAL AND 1-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 18298 MULTIPLY 1-DIGIT DECIMAL AND 2-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18299 MULTIPLY 1-DIGIT DECIMAL AND 3-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18300 MULTIPLY 2-DIGIT DECIMAL AND 2-DIGIT DECIM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18301 MULTIPLY 2-DIGIT DECIMAL AND 3-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18302 MULTIPLY 3-DIGIT DECIMAL AND 3-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18303 MULTIPLY 3-DIGIT DECIMAL AND 4-DIGIT DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18304 DIVIDE 2-DIGIT DECIMAL OR 3-DIGIT DECIMAL BY 1 WHOLE NUMBER: DIVIDES EXACTLY

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
07623	DECIMALS: UNDERSTANDING & OPERATIONS - STUDE	1	1.00	11- 6 TO 11- 6	13- 1 TO 13- 1

OBJECTIVE: 18305 DIVIDE 2-DIGIT DECIMAL BY .1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18306 DIVIDE 3-DIGIT DECIMAL BY .001

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18307 DIVIDE 2-DIGIT DECIMAL OR 3-DIGIT DECIMAL BY 1-DIGIT DECIMAL: DIVIDES EXACTLY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18308 DIVIDE 3-DIGIT DECIMAL BY 2-DIGIT DECIMAL: DIVIDES EXACTLY; STUDENT MAY ADD ZEROS

OBJECTIVE: 18308 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
07623	DECIMALS: UNDERSTANDING & OPERATIONS - STUDE	1	1.00	11- 6 TO 11- 6	13- 1 TO 13- 1

OBJECTIVE: 18309 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT DECIMAL: DIVIDES EXACTLY; STUDENT MAY ADD ZEROS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18310 DIVIDE 3-DIGIT DECIMAL BY 1-DIGIT DECIMAL: STUDENT MUST ADD ZEROS TO OBTAIN EXACT QUOTIENT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18311 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT DECIMAL: STUDENT MUST ADD ZEROS TO OBTAIN EXACT QUOTIENT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18312 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT WHOLE NUMBER: QUOTIENT GIVEN; STUDENT INSERTS DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 18313 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT DECIMAL: QUOTIENT GIVEN; STUDENT INSERTS DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18314 DIVIDE 3-DIGIT DECIMAL BY DECIMAL WITH 1 SIGNIFICANT DIGIT: STUDENT MUST ADD ZEROS TO OBTAIN QUOTIENT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18315 DIVIDE 4-DIGIT DECIMAL BY 2-DIGIT DECIMAL: ROUNDING TO HUNDREDTHS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18316 DIVIDE 4-DIGIT DECIMAL BY 3-DIGIT DECIMAL: ROUNDING TO HUNDREDTHS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18350 (A-D) DESCRIBE PLACE VALUE IN A DECIMAL NUMERAL UP TO 4 PLACES TO THE RIGHT OF THE DECIMAL

NO IMPLEMENTATION RECORD 1973-1974

F6-02 (CONTINUED)

OBJECTIVE: 18351 (A,B) WRITE DECIMAL NUMERALS IN EXPANDED NOTATION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18354 (A-D) COMPARE DECIMALS WITH VARYING NUMBERS OF DIGITS TO THE RIGHT OF THE DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-04 FRAC./PERCENT INTEGRATION

SOURCE: SRA

OBJECTIVE: 18355 (A,B) STATE AS A PERCENTAGE A RELATION BETWEEN TWO NUMBERS, EXPRESSED IN THE FORM X PER Y

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18356 (A,B) CONVERT TO PERCENT A FRACTION WITH A DENOMINATOR EQUAL TO OR LESS THAN 100

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18357 (C,D) CONVERT A FRACTION X/Y TO PERCENT (Y=10 OR Y=100)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18358 (A-C) SOLVE EQUATIONS OF THE TYPE X=Y% OF Z, GIVEN ANY TWO OF THE THREE POSSIBLE UNKNOWNS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-05 FRACTIONAL PARTS/CONSTRUCTION

SOURCE: HEATH

OBJECTIVE: 21120 SELECT FROM A COLLECTION OF REGIONS THOSE THAT ARE ONE HALF SHADED

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21121 IDENTIFY ONE HALF OF A SET CONTAINING AN EVEN NUMBER OF ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21164 SHADE VARIOUS UNIT FRACTIONAL PARTS OF SOME FIGURES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	8-10 TO 8-10	7-10 TO 7-10

OBJECTIVE: 21273 USE COMMON FRACTIONS TO INDICATE WHAT PART OF A REGION HAS A CERTAIN CHARACTERISTIC.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21274 USE COMMON FRACTIONS TO INDICATE WHAT PART OF A SET OF DISCRETE OBJECTS HAS A CERTAIN PROPERTY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	10- 8 TO 10- 8	7- 6 TO 7- 6

CONTENT AREA: F6-06 FRACTIONS/ADD

SOURCE: HEATH

OBJECTIVE: 21337 ADD AND SUBTRACT FRACTIONS WITH LIKE DENOMINATORS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	1.00	12- 1 TO 12- 1	**************
01363	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	1.00	12- 1 TO 12- 1	**************
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8
05855	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	12- 1 TO 12- 1	**************
05859	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	12- 1 TO 12- 1	**************

OBJECTIVE: 21337 (CONTINUED)

05860	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	12- 1	TO	12- 1	**************
90286	EVERYTHING BOARD	1	1.00	12- 1	TO	12- 1	**************
90302	TIC - TAC - TOE WITH FRACTIONS	1	1.00	12- 1	TO	12- 1	**************

OBJECTIVE: 21338 ADD AND SUBTRACT WITH FRACTIONS HAVING UNLIKE DENOMINATORS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21368 ADD AND SUBTRACT USING MIXED NUMERALS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21369 ADD AND SUBTRACT WITH SOME MIXED NUMERALS WHEN THE FRACTION PARTS HAVE DIFFERENT DENOMINATORS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21438 ADD OR SUBTRACT FRACTIONAL NUMBERS WHEN THE FRACTIONS HAVE DENOMINATORS OF 20 OR LESS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21439 ADD OR SUBTRACT ANY TWO FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

F6-06 (CONTINUED)

OBJECTIVE: 21443 ADD AND SUBTRACT WITH MIXED NUMERALS (NO REGROUPING).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21444 ADD AND SUBTRACT WITH MIXED NUMERALS WHEN REGROUPING IS REQUIRED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21493 ADD AND SUBTRACT FRACTIONAL NUMBERS WHOSE FRACTIONS HAVE SMALL DENOMINATORS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21497 ADD AND SUBTRACT SOME NUMBERS GIVEN IN MIXED FORM.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18071 ADD TWO FRACTIONS WITH THE SAME DENOMINATOR (NUMERATOR LESS THAN 10, DENOMINATOR LESS THAN 10), SHOWN THESE FRACTIONS ON A NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18200 ADD TWO FRACTIONS WITH 2 AS DENOMINATOR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18201 ADD TWO FRACTIONS WITH SAME DENOMINATOR

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01361	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	2.00	9-11 TO 9-11	9- 4 TO 9- 4
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	3.00	10-10 TO 10-10	10-11 TO 10-11
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6
07656	MODERN MATHEMATICS THROUGH DISCOVERY - LEVEL	1	2.00	10-10 TO 10-10	10-11 TO 10-11
07701	NEW DIMENSIONS IN MATHEMATICS - BOOK 1	1	3.00	13- 1 TO 13- 1	*************
07704	THE NEW LAIDLAW MATHEMATICS PROGRAM - GRADE	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6
07705	THE NEW LAIDLAW MATHEMATICS PROGRAM - GRADE	1	***.**	14- 2 TO 14- 2	13- 6 TO 13- 6
07706	THE NEW LAIDLAW MATHEMATICS PROGRAM - GRADE	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6
07707	THE NEW LAIDLAW MATHEMATICS PROGRAM - GRADE	1	***.**	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18202 ADD FRACTION WITH 2 AS DENOMINATOR AND FRACTION WITH 1 AS DENOMINATOR

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18203 ADD FRACTION WITH 4 AS DENOMINATOR AND FRACTION WITH 2 AS DENOMINATOR

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18204 ADD FRACTION WITH 3 AS DENOMINATOR AND FRACTION WITH 4 AS DENOMINATOR

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18205 ADD TWO FRACTIONS WITH UNLIKE DENOMINATORS: DENOMINATORS HAVE COMMON FACTOR OF 2 OR 3

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01607	PROGRESS IN MASTERING MATHEMATICS, B, 3RD GR	1	1.00	12- 6 TO 12- 8	9-11 TO 9-11
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18206 ADD TWO MIXED NUMBERS WITH SAME DENOMINATOR: SUM OF NUMERATORS LESS THAN DENOMINATOR

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6
07701	NEW DIMENSIONS IN MATHEMATICS - BOOK 1	1	3.00	13- 1 TO 13- 1	**************

OBJECTIVE: 18207 ADD TWO MIXED NUMBERS WITH SAME DENOMINATOR: SUM OF NUMERATORS GREATER THAN OR EQUAL TO DENOMINATOR

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6
07701	NEW DIMENSIONS IN MATHEMATICS - BOOK 1	1	3.00	13- 1 TO 13- 1	**************

OBJECTIVE: 18208 ADD TWO MIXED NUMBERS: SUM OF FRACTIONS LESS THAN 1: DENOMINATORS RELATIVELY PRIME

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OBJECTIVE:  18208  (CONTINUED)
RESOURCE                                                NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                        TITLES                    OF USES  RATING       AGE             AGE
                                                                 (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
04447  ARITHMETIC 4                                         1      2.00 14- 2 TO 14- 2  13- 6 TO 13- 6
07701  NEW DIMENSIONS IN MATHEMATICS - BOOK 1               1      3.00 13- 1 TO 13- 1  **************
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OBJECTIVE:  18209  ADD TWO MIXED NUMBERS: SUM OF FRACTIONS GREATER THAN
                   1: DENOMINATORS RELATIVELY PRIME

RESOURCE                                                NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                        TITLES                    OF USES  RATING       AGE             AGE
                                                                 (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
04447  ARITHMETIC 4                                         1      2.00 14- 2 TO 14- 2  13- 6 TO 13- 6
07701  NEW DIMENSIONS IN MATHEMATICS - BOOK 1               1      3.00 13- 1 TO 13- 1  **************
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OBJECTIVE:  18210  ADD TWO MIXED NUMBERS: SUM OF FRACTIONS LESS THAN
                   OR EQUAL TO 1

RESOURCE                                                NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                        TITLES                    OF USES  RATING       AGE             AGE
                                                                 (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
04447  ARITHMETIC 4                                         1      2.00 14- 2 TO 14- 2  13- 6 TO 13- 6
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OBJECTIVE: 18211 ADD TWO MIXED NUMBERS: SUM OF FRACTIONS GREATER THAN 1

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18212 ADD THREE MIXED NUMBERS WITH SAME DENOMINATOR: SUM OF NUMERATORS GREATER THAN OR EQUAL TO DENOMINATOR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18213 ADD THREE MIXED NUMBERS: ONE UNLIKE DENOMINATOR; SUM OF FRACTIONS GREATER THAN 1; DENOMINATORS RELATIVELY PRIME

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18214 ADD THREE MIXED NUMBERS: ONE UNLIKE DENOMINATOR; SUM OF FRACTIONS GREATER THAN 1

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03008	CROSS-NUMBER PUZZLE BOX, WHOLE NUMBERS	1	2.00	14- 8 TO 14- 8	8- 2 TO 8- 2
03010	CROSS-NUMBER PUZZLE BOX, FRACTIONS	6	1.17	12- 6 TO 15- 4	11- 3 TO 12- 3
07634	FRACTION DISCS	3	2.00	14- 4 TO 15- 6	8- 4 TO 12- 4

OBJECTIVE: 18214 (CONTINUED)

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     METHODS
52821  SRA FRACTION ADDITION                              1     ***.** 14- 8 TO 14- 8    8- 2 TO  8- 2
52840  SRA ADDITION OF FRACTIONS                          1     ***.** 12- 2 TO 12- 2   12- 2 TO 12- 2
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OBJECTIVE: 18338 (G-I) USE FRACTIONS TO WRITE AN ADDITION SENTENCE, GIVEN A DIAGRAM

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-07 FRACTIONS/BASIC CONCEPTS

SOURCE: COMPET

OBJECTIVE: 06318 DIVIDES SET INTO EQUAL GROUPS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06319 DIVIDES WHOLE UNIT INTO HALVES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06320 DIVIDES WHOLE UNIT INTO THIRDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06321 DIVIDES WHOLE UNIT INTO QUARTERS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: HEATH

OBJECTIVE: 21161 SELECT FROM A COLLECTION OF REGIONS THOSE THAT ARE 1/2, 1/3, OR 1/4 SHADED.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01293	ARITHMETIC STEP BY STEP, KIT A, GEOMETRIC SH	1	1.00	8- 4 TO 8- 4	7- 5 TO 7- 5
01361	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	3	1.00	7- 0 TO 11- 8	8-11 TO 11-11
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	3	1.00	7- 0 TO 11- 8	8-11 TO 11-11
01363	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	1.00	12- 1 TO 12- 1	12- 2 TO 12- 2
01512	FRACTION INLAY BOARD: CIRCLES	1	1.00	11-10 TO 11-10	**************
01573	FRACTIONS ARE EASY AS PIE	3	1.33	8- 3 TO 11- 9	3- 7*TO* 8- 1
01578	FLANNEL BOARD FRACTIONAL PARTS	1	2.00	11-10 TO 11-10	**************
03215	FLANNEL BOARD CUT-OUTS	1	1.00	8- 4 TO 8- 4	7- 5 TO 7- 5
04604	TUTORGRAM PROGRAMS	1	2.00	9-10 TO 9-10	4- 3 TO 4- 3
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	8-10 TO 8-10	7-10 TO 7-10

OBJECTIVE: 21162 SELECT FROM AMONG SEVERAL SETS THOSE THAT HAVE BEEN DIVIDED INTO HALVES, THIRDS, OR FOURTHS.

OBJECTIVE: 21162 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	8-10 TO 8-10	7-10 TO 7-10

OBJECTIVE: 21166 SELECT SEGMENTS FROM AMONG A COLLECTION OF VARIOUS FIGURES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	11- 1 TO 11- 1	8- 6 TO 8- 6

OBJECTIVE: 21197 MATCH SOME SIMPLE FRACTIONS WITH THEIR PICTORIAL REPRESENTATIONS (SHADED REGIONS).

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
01332	ARITHMETIC STEP BY STEP, KIT B, SUBTRACTION,	2	**1.00	8-10 TO 8-10	8- 3 TO 8- 3
01361	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	4	1.25	9- 9 TO 12- 7	5- 0*TO*11- 8
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	3	1.33	11- 9 TO 12- 1	5- 6*TO*13- 4
01363	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	1.00	12- 1 TO 12- 1	12- 2 TO 12- 2
01412	MODERN MATHEMATICS, GRADE 3, PART 1	4	1.75	6- 8 TO 9-10	9- 7*TO* 9- 7
01413	MODERN MATHEMATICS, GRADE 3, PART 2	4	2.00	6- 8 TO 9-10	9- 7*TO* 9- 7
01414	MODERN MATHEMATICS, GRADE 3, PART 3	6	2.00	7- 3 TO 10- 1	7- 1*TO* 9- 5
01430	CUISENAIRE CUBES, SQUARES AND RODS	2	1.00	8- 9 TO 9- 3	7- 7 TO 8- 5

OBJECTIVE: 21197 (CONTINUED)

01431	STUDENT ACTIVITY CARDS FOR CUISENAIRE RODS	3	1.00	8- 9 TO 9- 1	7- 9 TO 8- 5
01471	FRACTION CHART	1	1.00	12- 1 TO 12- 1	12- 2 TO 12- 2
01512	FRACTION INLAY BOARD: CIRCLES	6	1.33	8- 5 TO 11- 5	6- 0 TO 10- 4
01513	JUDY PLACE VALUE PEG TRAY	1	1.00	8-10 TO 8-10	8- 3 TO 8- 3
03931	ELEMENTARY SCHOOL MATHEMATICS, BOOK 4,	1	1.00	8-10 TO 8-10	8- 3 TO 8- 3
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	6	1.50	8- 8 TO 11- 4	6- 3 TO 11- 5
06089	ELEMENTARY SCHOOL MATHEMATICS, BOOK 3, DUPLI	1	1.00	8-10 TO 8-10	8- 3 TO 8- 3

OBJECTIVE: 21198 INDICATE WITH A FRACTION WHAT PART OF A SMALL SET OF DISCRETE OBJECTS HAS A GIVEN PROPERTY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01361	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	2	1.00	8- 6 TO 12- 4	6- 1 TO 6- 9
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	1.00	11- 9 TO 11- 9	6- 8 TO 6- 8
01512	FRACTION INLAY BOARD: CIRCLES	3	1.33	8- 2 TO 11- 6	6- 1 TO 7- 9
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	5	1.40	8- 5 TO 10-11	6- 4 TO 9- 8

OBJECTIVE: 21273 USE COMMON FRACTIONS TO INDICATE WHAT PART OF A REGION HAS A CERTAIN CHARACTERISTIC.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01512	FRACTION INLAY BOARD: CIRCLES	1	1.00	10- 0 TO 10- 0	9- 5 TO 9- 5
01573	FRACTIONS ARE EASY AS PIE	1	1.00	10- 0 TO 10- 0	9- 5 TO 9- 5

OBJECTIVE: 21273 (CONTINUED)

01590	ASPEX FRACTIONS SET II	1	2.00	10- 0 TO 10- 0	9- 5 TO 9- 5
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.50	9-10 TO 10-10	7- 2 TO 9-10
05851	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	10- 0 TO 10- 0	9- 5 TO 9- 5

OBJECTIVE: 21274 USE COMMON FRACTIONS TO INDICATE WHAT PART OF A SET OF DISCRETE OBJECTS HAS A CERTAIN PROPERTY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21275 FIND UNIT FRACTIONAL PARTS OF SOME QUANTITIES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	10- 8 TO 10- 8	7- 6 TO 7- 6

OBJECTIVE: 21276 COMPARE SOME FRACTIONAL NUMBERS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	10- 8 TO 10- 8	7- 6 TO 7- 6

OBJECTIVE: 21277 SOLVE SOME PRACTICAL PROBLEMS INVOLVING FRACTIONS AS OPERATORS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	10- 8 TO 10- 8	7- 6 TO 7- 6

OBJECTIVE: 21278 GENERATE SOME FRACTIONS EQUIVALENT TO A GIVEN FRACTION.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	10- 8 TO 10- 8	7- 6 TO 7- 6

OBJECTIVE: 21331 USE COMMON FRACTIONS TO INDICATE WHAT PART OF A REGION HAS A CERTAIN CHARACTERISTIC.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8

OBJECTIVE: 21332 USE COMMON FRACTIONS TO INDICATE WHAT PART OF A SET OF DISCRETE OBJECTS HAS A GIVEN PROPERTY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8

OBJECTIVE: 21333 FIND UNIT FRACTIONAL PARTS OF QUANTITIES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8

OBJECTIVE: 21334 COMPARE SOME FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21335 SOLVE SOME PRACTICAL PROBLEMS INVOLVING FRACTIONS AS OPERATORS.

OBJECTIVE: 21335 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8

OBJECTIVE: 21336 GENERATE SOME FRACTIONS EQUIVALENT TO A GIVEN FRACTION-IN PARTICULAR, REDUCE SOME FRACTIONS TO LOWER TERMS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01361	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	2	1.00	10-10 TO 12- 4	11- 1*TO*11- 1
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	3	1.00	10-11 TO 12- 1	11- 1*TO*11- 1
01363	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	1.00	11- 5 TO 11- 5	**************
01578	FLANNEL BOARD FRACTIONAL PARTS	1	1.00	11- 5 TO 11- 5	**************
05173	BASIC ELEMENTARY SPELLING SKILLS, VOL. 1	3	1.00	10-11 TO 12- 1	11- 1*TO*11- 1
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8
05855	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.00	10-10 TO 12- 4	11- 1*TO*11- 1
05859	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	3	1.00	10-11 TO 12- 1	11- 1*TO*11- 1
05860	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.00	10-10 TO 12- 4	11- 1*TO*11- 1
90286	EVERYTHING BOARD	3	1.00	10-11 TO 12- 1	11- 1*TO*11- 1
90301	CONCENTRATION FOR EQUIVALENT FRACTIONS	2	1.00	10-11 TO 11- 7	11- 1*TO*11- 1
90302	TIC - TAC - TOE WITH FRACTIONS	2	**1.00	11- 3 TO 12- 3	**************

OBJECTIVE: 21357 REDUCE SOME FRACTIONS TO LOWEST TERMS.

NO IMPLEMENTATION RECORD 1973-1974

F6-07 (CONTINUED)

OBJECTIVE: 21364 USE A MIXED NUMERAL TO DESCRIBE A SET OF OBJECTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21365 USE MIXED NUMERALS TO LABEL POINTS ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21366 CHANGE FROM MIXED NUMERALS TO FRACTIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21367 CHANGE SOME FRACTIONS TO MIXED NUMERALS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21433 USE A COMMON FRACTION TO INDICATE WHAT PART OF A SET HAS A GIVEN PROPERTY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21434 FIND FRACTIONAL PARTS OF QUANTITIES.

NO IMPLEMENTATION RECORD 1973-1974

F6-07 (CONTINUED)

OBJECTIVE: 21435 LIST MANY FRACTIONS EQUIVALENT TO A GIVEN FRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21436 REDUCE MANY FRACTIONS TO LOWEST TERMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21437 COMPARE MANY FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21440 USE MIXED NUMERALS TO DESCRIBE SETS OF OBJECTS OR TO LABEL POINTS ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21441 CHANGE FROM MIXED NUMERALS TO FRACTIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21442 CHANGE FROM FRACTIONS TO MIXED NUMERALS.

NO IMPLEMENTATION RECORD 1973-1974

F6-07 (CONTINUED)

OBJECTIVE: 21488 FIND A FRACTIONAL PART OF SOME QUANTITIES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21489 FIND WHAT FRACTION ONE QUANTITY IS OF ANOTHER QUANTITY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21490 GENERATE FRACTIONS EQUIVALENT TO A GIVEN FRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21491 REDUCE MANY FRACTIONS TO LOWEST TERMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21492 COMPARE MANY FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21494 USE MIXED NUMERALS TO EXPRESS SOME NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21495 CHANGE FROM FRACTIONS TO MIXED NUMERALS AND VICE VERSA.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21496 USE MIXED NUMERALS AS OPERATORS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09497 FRACTIONAL NUMBERS: GIVEN A PART OF A WHOLE OBJECT, THE CHILD WILL BE ABLE TO IDENTIFY IT AS THE APPROPRIATE FRACTION: GIVEN OBJECTS AND SET OF OBJECTS, THE CHILD WILL BE ABLE TO DIVIDE THEM INTO HALVES, THIRDS, OR FOURTHS, ETC.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01573	FRACTIONS ARE EASY AS PIE	1	2.00	12- 8 TO 12- 8	9-11 TO 9-11

OBJECTIVE: 09498 GIVEN A RECTANGLE DIVIDED INTO PARTS, THE CHILD CAN NAME THE PART AS A FRACTION OF THE WHOLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09499 GIVEN 4 CIRCLES, ONE CIRCLE WHOLE, ONE CUT IN HALF, ONE IN THIRDS, AND ONE IN FOURTHS, THE CHILD CAN "PICK UP PIECES" IN RESPONSE TO INSTRUCTIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09500 GIVEN A RECTANGLE OR CIRCLE, THE CHILD CAN DIVIDE IT APPROXIMATELY INTO HALVES, THIRDS, FOURTHS, ETC.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09501 GIVEN A SET (GROUP) OF IDENTICAL OBJECTS, THE CHILD CAN DIVIDE THE SET (GROUP) INTO HALVES, THIRDS, FOURTHS, ETC.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18065 DISTINGUISH OBJECTS THAT HAVE BEEN DIVIDED IN HALF FROM OBJECTS THAT HAVE BEEN DIVIDED IN TWO PARTS, NOT HALVES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
90238	CARDBOARD FRACTION CIRCLES	1	2.00	12- 8 TO 12- 8	9-11 TO 9-11

OBJECTIVE: 18067 GIVE TWO EQUIVALENT FRACTIONS TO DESCRIBE PART OF A SET OR REGION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18068 ORDER FRACTIONS X/Y (X=1, 2, OR 3; Y= 2, 3, OR 4; X/Y IS LESS THAN 1,) GIVEN A SET OF THREE BARS DIVIDED INTO HALVES, THIRDS, AND FOURTHS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18069 TELL HOW MANY OBJECTS ARE CONTAINED IN A FRACTIONAL PART OF A GROUP, GIVEN THE SIZE OF THE GROUP AND A FRACTIONAL PART.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01471	FRACTION CHART	2	1.00	8- 0 TO 8- 8	**************
01573	FRACTIONS ARE EASY AS PIE	2	1.00	8- 0 TO 8- 8	**************
01601	MATHEMATICS READINESS, KDG., TEACHER'S GUIDE	2	2.00	8- 0 TO 8- 8	**************

OBJECTIVE: 18070 TELL WHAT FRACTION BELONGS AT A GIVEN POINT BETWEEN 0 AND 1 ON A NUMBER LINE MARKED OFF IN EQUAL SEGMENTS, WITH ONLY POINTS 0 AND 1 LABELED.

OBJECTIVE: 18070 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	1.00	12- 1 TO 12- 1	**************
01601	MATHEMATICS READINESS, KDG., TEACHER'S GUIDE	1	1.00	12- 1 TO 12- 1	**************
05859	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	12- 1 TO 12- 1	**************

OBJECTIVE: 18335 (A,B) USE A FRACTION TO DESCRIBE PART OF A SET OR REGION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18336 (A-C) RELATE MULTIPLICATION BY A FRACTION TO DIVISION BY THE INVERSE OF THE FRACTION, GIVEN A DIAGRAM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18337 (D-F) USE FRACTIONS TO WRITE A SUBTRACTION SENTENCE, GIVEN A DIAGRAM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18338 (G-I) USE FRACTIONS TO WRITE AN ADDITION SENTENCE, GIVEN A DIAGRAM

NO IMPLEMENTATION RECORD 1973-1974

F6-07 (CONTINUED)

OBJECTIVE: 18339 (A,B) DECIDE WHAT OPERATION TO USE WHEN GIVEN A SITUATION INVOLVING FRACTIONAL NUMBERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18340 (A,B) GIVE TWO EQUIVALENT FRACTIONS TO DESCRIBE PART OF A SET OR REGION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18341 (A,B) GIVE TWO EQUIVALENT FRACTIONS FOR A FRACTION X/Y(X LESS THAN 10, Y LESS THAN 15)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18342 (A,B) ORDER FRACTIONS X/Y (X LESS THAN 10, Y LESS THAN 10, X/Y EQUAL TO OR LESS THAN 1), GIVEN A NUMBER LINE CONTAINING ALL THE POINTS TO BE ORDERED AND LABELS FOR ALTERNATE POINTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18343 (C,D) ORDER FRACTIONS X/Y (X=1,2, OR 3; Y=2,3, OR 4; X/Y EQUAL TO OR LESS THAN 1), GIVEN A SET OF THREE BARS DIVIDED INTO HALVES, THIRDS, AND FOURTHS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18344 (E,F) COMPARE FRACTIONS X/Y (X LESS THAN 10, Y LESS THAN 10, X/Y EQUAL TO OR LESS THAN 1)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18345 (A,B) LIST THREE FRACTIONS IN HIGHER TERMS FOR A GIVEN FRACTION

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	1.00	12- 1 TO 12- 1	**************
05859	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	12- 1 TO 12- 1	**************
90286	EVERYTHING BOARD	1	1.00	12- 1 TO 12- 1	**************
90301	CONCENTRATION FOR EQUIVALENT FRACTIONS	1	1.00	12- 1 TO 12- 1	**************
90302	TIC - TAC - TOE WITH FRACTIONS	1	1.00	12- 1 TO 12- 1	**************

OBJECTIVE: 18346 (A,B) LIST THREE FRACTIONS IN LOWER TERMS FOR A GIVEN FRACTION

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01361	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	2	2.50	9- 9 TO 11- 1	9- 1 TO 11- 3
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	3.00	10-10 TO 10-10	10-11 TO 10-11
01371	ARITHMETIC STEP BY STEP, KIT B, MONEY, LEVEL	1	2.00	9-11 TO 9-11	9- 4 TO 9- 4

OBJECTIVE: 18347 (A,B) REDUCE FRACTIONS TO LOWEST TERMS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	1.00	12- 1 TO 12- 1	**************
05859	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	12- 1 TO 12- 1	**************
90286	EVERYTHING BOARD	1	1.00	12- 1 TO 12- 1	**************
90301	CONCENTRATION FOR EQUIVALENT FRACTIONS	1	1.00	12- 1 TO 12- 1	**************
90302	TIC - TAC - TOE WITH FRACTIONS	1	1.00	12- 1 TO 12- 1	**************

OBJECTIVE: 18387 (A-C) IDENTIFY THE LEAST COMMON DENOMINATOR OF TWO FRACTIONAL NUMBERS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
00131	PALO ALTO READING PROGRAM READING BOOK 4	1	2.00	10-10 TO 10-10	10-11 TO 10-11
00132	PALO ALTO READING PROGRAM WORKPAD 4	1	2.00	10-10 TO 10-10	10-11 TO 10-11
00191	THE NEW PHONICS WE USE, BOOK B, GRADE 1	1	3.00	10-10 TO 10-10	10-11 TO 10-11
01361	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	2.00	9-11 TO 9-11	9- 4 TO 9- 4
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	2	2.50	9- 9 TO 11- 1	9- 1 TO 11- 3
01363	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	1	3.00	10-10 TO 10-10	10-11 TO 10-11

601

600

CONTENT AREA: F6-08 FRACTIONS/DIVISION

SOURCE: HEATH

OBJECTIVE: 21455 DIVIDE MOST FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21510 DIVIDE FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21512 GIVE THE QUOTIENT OF A PAIR OF WHOLE NUMBERS AS A MIXED NUMERAL WHEN THERE IS A NONZERO REMAINDER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21513 USE DIVISION TO CHANGE A FRACTION TO A MIXED NUMERAL.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21514 USE DIVISION TO CHANGE A FRACTION TO A DECIMAL.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18245 DIVIDE 1 BY FRACTION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18246 DIVIDE WHOLE NUMBER BY FRACTION

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07701	NEW DIMENSIONS IN MATHEMATICS - BOOK 1	1	3.00	13- 1 TO 13- 1	**************

OBJECTIVE: 18247 DIVIDE WHOLE NUMBER BY FRACTION: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18248 DIVIDE FRACTION BY FRACTION: UNLIKE DENOMINATORS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18249 DIVIDE FRACTION BY FRACTION: UNLIKE DENOMINATORS; CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18250 DIVIDE MIXED NUMBER BY WHOLE NUMBER: WHOLE NUMBER EXACTLY DIVIDES NUMERATOR AND WHOLE NUMBER OF MIXED NUMBER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18251 DIVIDE MIXED NUMBER BY WHOLE NUMBER: NUMERATOR OF IMPROPER FRACTION (CONVERSION OF MIXED NUMBER) DIVISIBLE BY WHOLE NUMBER; QUOTIENT GREATER THAN 1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18252 DIVIDE MIXED NUMBER BY WHOLE NUMBER: NUMERATOR OF IMPROPER FRACTION (CONVERSION OF MIXED NUMBER) NOT DIVISIBLE BY WHOLE NUMBER; QUOTIENT LESS THAN 1; WITH CANCELLATION AND WITHOUT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18253 DIVIDE MIXED NUMBER BY FRACTION WITH NUMERATOR OF 1

NO IMPLEMENTATION RECORD 1973-1974

F6-08 (CONTINUED)

OBJECTIVE: 18254 DIVIDE MIXED NUMBER BY FRACTION WITH NUMERATOR OF 1: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18255 DIVIDE MIXED NUMBER BY FRACTION WITH NUMERATOR GREATER THAN 1: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18256 DIVIDE WHOLE NUMBER BY MIXED NUMBER: QUOTIENT LESS THAN 1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18257 DIVIDE FRACTION BY MIXED NUMBER: QUOTIENT LESS THAN 1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18258 DIVIDE MIXED NUMBER BY MIXED NUMBER: QUOTIENT LESS THAN 1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18259 DIVIDE WHOLE NUMBER BY MIXED NUMBER:
QUOTIENT GREATER THAN 1; CANCELLATION POSSIBLE

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03010	CROSS-NUMBER PUZZLE BOX, FRACTIONS	2	1.50	12- 9 TO 16- 1	11- 2 TO 16-10
06000	DUSO KIT D-1 - SONG & STORY CASSETTE 3 - SID	1	***.**	15- 7 TO 15- 7	12- 0 TO 12- 0
	METHODS				
53528	SRA FRACTION DIVISION	1	***.**	15- 7 TO 15- 7	12- 0 TO 12- 0
53529	SRA FRACTION DIVISION	1	***.**	13- 3 TO 13- 3	16- 0 TO 16- 0

OBJECTIVE: 18336 (A-C) RELATE MULTIPLICATION BY A FRACTION TO DIVISION BY THE
INVERSE OF THE FRACTION, GIVEN A DIAGRAM

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-09 FRACTIONS/MULTIPLICATION

SOURCE: HEATH

OBJECTIVE: 21454 MULTIPLY MOST FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21508 MULTIPLY FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

F6-09 (CONTINUED)

OBJECTIVE: 21509 MULTIPLY WHEN THE NUMBERS ARE EXPRESSED AS MIXED NUMERALS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18229 MULTIPLY WHOLE NUMBER AND FRACTION WITH 3 AS DENOMINATOR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18230 MULTIPLY WHOLE NUMBER AND FRACTION WITH 3 AS DENOMINATOR: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18231 MULTIPLY FRACTION WITH 1 AS DENOMINATOR AND FRACTION WITH DENOMINATOR GREATER THAN 1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18232 MULTIPLY FRACTION WITH 1 AS DENOMINATOR AND FRACTION WITH DENOMINATOR GREATER THAN 1: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

F6-09 (CONTINUED)

OBJECTIVE: 18233 MULTIPLY TWO FRACTIONS WITH 2 AS DENOMINATOR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18234 MULTIPLY FRACTION WITH 2 AS DENOMINATOR AND FRACTION WITH 3 AS DENOMINATOR: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18235 MULTIPLY TWO FRACTIONS WITH UNLIKE DENOMINATORS: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18237 MULTIPLY MIXED NUMBER AND WHOLE NUMBER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18238 MULTIPLY MIXED NUMBER AND WHOLE NUMBER CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18239 MULTIPLY MIXED NUMBER AND FRACTION: PRODUCT LESS THAN 1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18240 MULTIPLY MIXED NUMBER AND FRACTION: PRODUCT GREATER THAN OR EQUAL TO 1

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18241 MULTIPLY MIXED NUMBER AND FRACTION: PRODUCT LESS THAN 1: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18242 MULTIPLY MIXED NUMBER AND FRACTION: PRODUCT GREATER THAN OR EQUAL TO 1: CANCELLATION POSSIBLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18243 MULTIPLY MIXED NUMBER AND MIXED NUMBER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18244 MULTIPLY MIXED NUMBER AND MIXED NUMBER: CANCELLATION POSSIBLE

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03010	CROSS-NUMBER PUZZLE BOX, FRACTIONS	5	1.20	12- 9 TO 15- 5	9- 2 TO 14- 8

OBJECTIVE: 18244 (CONTINUED)

	METHODS				
52834	SRA FRACTION MULTIPLICATION	1	2.00	13- 3 TO 13- 3	16- 0 TO 16- 0
52835	SRA FRACTION MULTIPLICATION	1	***.**	12- 2 TO 12- 2	12- 2 TO 12- 2

OBJECTIVE: 18336 (A-C) RELATE MULTIPLICATION BY A FRACTION TO DIVISION BY THE INVERSE OF THE FRACTION, GIVEN A DIAGRAM

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-10 FRACTIONS/SUBTRACTION

SOURCE: HEATH

OBJECTIVE: 21337 ADD AND SUBTRACT FRACTIONS WITH LIKE DENOMINATORS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21338 ADD AND SUBTRACT WITH FRACTIONS HAVING UNLIKE DENOMINATORS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8

F6-10 (CONTINUED)

OBJECTIVE: 21368 ADD AND SUBTRACT USING MIXED NUMERALS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21369 ADD AND SUBTRACT WITH SOME MIXED NUMERALS WHEN THE FRACTION PARTS HAVE DIFFERENT DENOMINATORS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21438 ADD OR SUBTRACT FRACTIONAL NUMBERS WHEN THE FRACTIONS HAVE DENOMINATORS OF 20 OR LESS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21439 ADD OR SUBTRACT ANY TWO FRACTIONAL NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21493 ADD AND SUBTRACT FRACTIONAL NUMBERS WHOSE FRACTIONS HAVE SMALL DENOMINATORS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21497 ADD AND SUBTRACT SOME NUMBERS GIVEN IN MIXED FORM.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18072 SUBTRACT TWO FRACTIONS WITH THE SAME DENOMINATOR (NUMERATOR LESS THAN 10, DENOMINATOR LESS THAN 10), SHOWN THESE FRACTIONS ON A NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18215 SUBTRACT TWO FRACTIONS WITH 2 AS DENOMINATOR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18216 SUBTRACT TWO FRACTIONS WITH SAME DENOMINATOR

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
01362	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	2	2.00	9- 9 TO 11- 1	9- 1 TO 11- 3
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6
07656	MODERN MATHEMATICS THROUGH DISCOVERY - LEVEL	1	2.00	10-10 TO 10-10	10-11 TO 10-11
07701	NEW DIMENSIONS IN MATHEMATICS - BOOK 1	1	3.00	13- 1 TO 13- 1	**************

OBJECTIVE: 18217 SUBTRACT FRACTION WITH 1 AS DENOMINATOR FROM FRACTION WITH 2 AS DENOMINATOR

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OBJECTIVE:  18217  (CONTINUED)
RESOURCE                                              NUMBER    EFF    CHRONOLOGICAL        MENTAL
NUMBER                             TITLES             OF USES  RATING       AGE               AGE
                                                               (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
04447  ARITHMETIC 4                                      1       2.00 14- 2 TO 14- 2  13- 6 TO 13- 6
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OBJECTIVE:  18218  SUBTRACT TWO FRACTIONS WITH DENOMINATIONS OF 2 AND 4

RESOURCE                                              NUMBER    EFF    CHRONOLOGICAL        MENTAL
NUMBER                             TITLES             OF USES  RATING       AGE               AGE
                                                               (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
04447  ARITHMETIC 4                                      1       2.00 14- 2 TO 14- 2  13- 6 TO 13- 6
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OBJECTIVE:  18219  SUBTRACT TWO FRACTIONS WITH DENOMINATORS OF 3 AND 4

RESOURCE                                              NUMBER    EFF    CHRONOLOGICAL        MENTAL
NUMBER                             TITLES             OF USES  RATING       AGE               AGE
                                                               (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
04447  ARITHMETIC 4                                      1       2.00 14- 2 TO 14- 2  13- 6 TO 13- 6
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OBJECTIVE: 18220 SUBTRACT TWO FRACTIONS WITH UNLIKE DENOMINATORS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6
07701	NEW DIMENSIONS IN MATHEMATICS - BOOK 1	1	3.00	13- 1 TO 13- 1	**************

OBJECTIVE: 18221 SUBTRACT FRACTION FROM MIXED NUMBER: SAME DENOMINATOR; NO REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	***.**	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18222 SUBTRACT MIXED NUMBER FROM MIXED NUMBER: LIKE FRACTIONS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18223 SUBTRACT MIXED NUMBER FROM MIXED NUMBER: SAME DENOMINATOR; NO REGROUPING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18224 SUBTRACT MIXED NUMBER FROM WHOLE NUMBER

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18225 SUBTRACT FRACTION FROM MIXED NUMBER: SAME DENOMINATOR; REGROUPING REQUIRED

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18226 SUBTRACT MIXED NUMBER FROM MIXED NUMBER: SAME DENOMINATOR; REGROUPING REQUIRED

OBJECTIVE: 18226 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18227 SUBTRACT MIXED NUMBER FROM MIXED NUMBER: UNLIKE DENOMINATORS; NO REGROUPING

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01363	ARITHMETIC STEP BY STEP, KIT B, FRACTIONS, L	2	1.00	6- 1 TO 11-11	6- 6 TO 12- 8
04447	ARITHMETIC 4	1	2.00	14- 2 TO 14- 2	13- 6 TO 13- 6

OBJECTIVE: 18228 SUBTRACT MIXED NUMBER FROM MIXED NUMBER: UNLIKE DENOMINATORS; REGROUPING REQUIRED

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03010	CROSS-NUMBER PUZZLE BOX, FRACTIONS	4	1.25	12-10 TO 15- 8	11- 0 TO 12- 2
	METHODS				
52819	SRA FRACTION SUBTRACTION	1	***.**	14- 6 TO 14- 6	10-10 TO 10-10
52822	SRA SUBTRACTION	1	***.**	15- 7 TO 15- 7	12- 0 TO 12- 0

F6-10 (CONTINUED)

OBJECTIVE: 18337 (D-F) USE FRACTIONS TO WRITE A SUBTRACTION SENTENCE, GIVEN A DIAGRAM

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-11 PER CENT

SOURCE: HEATH

OBJECTIVE: 21537 FIND A PERCENT OF A GIVEN QUANTITY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18360 (A,B) FIND THE SALE PRICE OF AN OBJECT, GIVEN THE ORIGINAL PRICE AND RATE OF DISCOUNT; FIND A NEW PRICE, GIVEN THE PERCENTAGE OF PRICE INCREASE

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-12 RATIO/RATE/PROPORTION

SOURCE: HEATH

OBJECTIVE: 21445 WRITE RATIOS OF SOME QUANTITIES.

NO IMPLEMENTATION RECORD 1973-1974

F6-12 (CONTINUED)

OBJECTIVE: 21446 COMPUTE SOME RATES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21530 EXPRESS THE RATIO OF TWO QUANTITIES AS A FRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21531 DETERMINE IF A PROPORTION IS TRUE OR FALSE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21532 WRITE THE RELATED MULTIPLICATION EQUATION FOR A PROPORTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21533 SOLVE A PROPORTION THAT CONTAINS A PLACE HOLDER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21534 FIND THE AVERAGE SPEED FROM THE DISTANCE AND TIME TRAVELED.

NO IMPLEMENTATION RECORD 1973-1974

F6-12 (CONTINUED)

OBJECTIVE: 21535 WRITE SOME RATIOS USING PERCENT NOTATION.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F6-13 FRAC./DECIMAL INTEGRATION

SOURCE: HEATH

OBJECTIVE: 21536 CHANGE FROM PERCENTS TO FRACTIONS AND DECIMALS AND VICE VERSA.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18352 (A-D) CONVERT TO A FRACTION OR A MIXED FRACTION A DECIMAL WITH UP TO 3 DIGITS FOLLOWING THE DECIMAL POINT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18353 (A-D) CONVERT A FRACTION X/Y TO A DECIMAL (X WITH 1,2, OR 3 DIGITS; Y LESS THAN 10, Y=10, Y=100, OR Y=1000)

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-00 MONEY/TIME/MEASUREMENT/GEOMETRY

SOURCE: HEATH

OBJECTIVE: 21499 SELECT FROM A SET OF LINES THOSE THAT ARE PARALLEL AND THOSE THAT ARE PERPENDICULAR.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-01 BASIC GEOMETRY

SOURCE: HEATH

OBJECTIVE: 21119 RECOGNIZE POINTS INSIDE A SIMPLE CLOSED CURVE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21167 DRAW THE SEGMENT JOINING TWO POINTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21168 SELECT SIMPLE CLOSED CURVES FROM AMONG A COLLECTION OF FIGURES.

OBJECTIVE: 21168 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	11- 1 TO 11- 1	8- 6 TO 8- 6

OBJECTIVE: 21169 IDENTIFY POINTS AS BEING INSIDE OR OUTSIDE SIMPLE CLOSED CURVES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21188 SELECT FROM A COLLECTION OF FIGURES THOSE THAT ARE SIMPLE CLOSED CURVES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01273	ARITHMETIC STEP BY STEP, KIT A, TIME, LEVEL	2	2.00	9- 1 TO 10- 1	7- 6 TO 7- 8

OBJECTIVE: 21189 SELECT FROM A COLLECTION OF FIGURES THOSE THAT ARE CIRCLES, TRIANGLES, SQUARES, AND OTHER RECTANGLES.

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OBJECTIVE:  21189  (CONTINUED)
RESOURCE                                              NUMBER     EFF   CHRONOLOGICAL      MENTAL
NUMBER                      TITLES                    OF USES  RATING       AGE             AGE
                                                               (1=HI)  -1SD TO +1SD    -1SD TO +1SD
      MATERIALS
05839  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  2         1.00  8- 7 TO 10- 5   8- 9 TO  9- 5
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OBJECTIVE: 21217 DETERMINE IF TWO SHORT SEGMENTS ARE CONGRUENT BY COPYING ONE AND COMPARING THE COPY WITH THE SECOND.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21220 DETERMINE IF TWO TRIANGLES ARE CONGRUENT BY TRACING ONE AND TRYING TO FIT THE TRACING ON THE OTHER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21267 NAME SEGMENTS IN TWO WAYS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21300 NAME SEGMENTS IN SEVERAL WAYS.

NO IMPLEMENTATION RECORD 1973-1974

F7-01 (CONTINUED)

OBJECTIVE: 21305 IDENTIFY CORRESPONDING PARTS OF CONGRUENT FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21306 IDENTIFY LINES OF SYMMETRY OF SOME FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21307 IDENTIFY SOME FIGURES THAT HAVE ROTATIONAL SYMMETRY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21370 SELECT PICTURES OF SEGMENTS, RAYS, LINES, AND ANGLES FROM A COLLECTION OF PICTURES OF GEOMETRIC FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21391 SELECT POINTS, LINES, RAYS, SEGMENTS, AND ANGLES FROM A COLLECTION OF FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21393 LIST CORRESPONDING PARTS FOR CONGRUENT FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

F7-01 (CONTINUED)

OBJECTIVE: 21398 DETERMINE BY TRACING WHETHER A GIVEN POINT IS A CENTER OF ROTATIONAL SYMMETRY OF A GIVEN FIGURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21399 SELECT FROM A COLLECTION OF LINES THOSE THAT ARE PARALLEL.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21527 USE A TRACING TO DETERMINE IF A GIVEN POINT IS A POINT OF SYMMETRY OF A FIGURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21528 LIST PROPERTIES OF A FIGURE THAT FOLLOW FROM THE FACT THAT THE FIGURE HAS A GIVEN POINT OF SYMMETRY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21529 LIST PROPERTIES OF A PARALLELOGRAM, RECTANGLE, SQUARE, KITE, AND TRAPEZOID.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09512 RECOGNITION OF GEOMETRIC SHAPES AND LINES: THE CHILD WILL BE ABLE TO IDENTIFY COMMON GEOMETRIC SHAPES (CIRCLE, SQUARE, RECTANGLE, TRIANGLE) AND DIVIDE SUCH SHAPES INTO OTHER GEOMETRIC SHAPES. HE WILL ALSO BE ABLE TO IDENTIFY LINE SEGMENTS (STRAIGHT, CURVED, PARALLEL, PERPENDICULAR, OBLIQUE), CURVES (OPEN OR CLOSED), AND ANGLES (RIGHT, ACUTE, OBTUSE).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09513 GIVEN CIRCLES, SQUARES, RECTANGLES, TRIANGLES OF VARIOUS SIZES, THE CHILD CAN PICK UP THE REQUESTED GEOMETRIC SHAPE.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03179	TRACING PAPER	1	1.00	8- 0 TO 8- 0	7- 7 TO 7- 7
03926	DEVELOPING LEARNING READINESS: DESK TEMPLATE	4	1.50	7- 5 TO 8- 3	6- 4 TO 9-10
03927	DEVELOPING LEARNING READINESS: CHALKBOARD TE	3	1.67	7- 3 TO 8- 3	5-10 TO 9- 6
04379	DEVELOPING LEARNING READINESS: TEACHER'S MA	1	2.00	7- 2 TO 7- 2	5-10 TO 5-10
	TEST/TASK				
00054	GEOMETRICAL SHAPES	1	1.00	8- 0 TO 8- 0	7- 7 TO 7- 7
00087	GEOMETRICAL SHAPES	1	1.00	7- 4 TO 7- 4	6- 7 TO 6- 7

OBJECTIVE: 09514 GIVEN NEGATIVE SPACE, THE CHILD CAN DESCRIBE THE SHAPE.

NO IMPLEMENTATION RECORD 1973-1974

F7-01 (CONTINUED)

OBJECTIVE: 09515 GIVEN A PLANE GEOMETRIC FIGURE (CIRCLE, TRIANGLE, SQUARE, RECTANGLE), THE CHILD WILL BE ABLE TO DIVIDE IT INTO TWO GEOMETRIC FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09516 GIVEN AN ARRAY OF LINES, THE CHILD CAN IDENTIFY STRAIGHT AND CURVED LINE SEGMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09517 GIVEN AN ARRAY OF OPEN AND CLOSED CURVES, THE CHILD CAN IDENTIFY WHICH ARE WHICH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09518 GIVEN PAIRS OF LINES, THE CHILD CAN IDENTIFY WHICH ARE PARALLEL, PERPENDICULAR, OR OBLIQUE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09519 GIVEN RIGHT, ACUTE, AND OBTUSE ANGLES, THE CHILD CAN MATCH THE ANGLE WITH THE PROPER LABEL.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09520 SYMMETRY: GIVEN SYMMETRICAL AND ASYMMETRICAL DESIGNS, THE CHILD CAN SELECT THE SYMMETRICAL DESIGNS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
04405	FROSTIG PROGRAM BOX SPATIAL RELATIONSHIP MAS	1	2.00	8- 6 TO 8- 6	6- 6 TO 6- 6

OBJECTIVE: 09521 GIVEN SYMMETRICAL DESIGNS WITH LINE SYMMETRY AND ASYMMETRICAL DESIGNS, THE CHILD CAN PICK THE ONES SHOWING THE LINE SYMMETRY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09522 GIVEN SYMMETRICAL DESIGNS WITH POINT SYMMETRY AND ASYMMETRICAL DESIGNS, THE CHILD CAN PICK THE ONES WHICH SHOW THE POINT SYMMETRY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18523 (A,B) NAME THE GEOMETRIC FIGURE THAT IS THE SHORTEST DISTANCE BETWEEN TWO POINTS

NO IMPLEMENTATION RECORD 1973-1974

F7-01 (CONTINUED)

SOURCE: RURAL UNIT

OBJECTIVE: 90100 WHEN PRESENTED WITH AN OBJECT IN THE SHAPE OF A SQUARE THE CHILD WILL VERBALLY STATE THAT IT IS A SQUARE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90474 GIVEN VARIOUS GEOMETRIC SHAPES ON CARDS, THE STUDENT WILL VERBALL IDENTIFY THE VARIOUS SHAPES BY SAYING "THIS IS A CIRCLE, THIS IS A SQUARE....ETC."

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-02 GEOMETRIC MEASUREMENT

SOURCE: HEATH

OBJECTIVE: 21221 DETERMINE BY USING A PHYSICAL MODEL (CORNER OF A CARD) IF AN ANGLE IS A RIGHT ANGLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21243 MEASURE SOME AREAS USING AN ARBITRARY UNIT.

NO IMPLEMENTATION RECORD 1973-1974

F7-02 (CONTINUED)

OBJECTIVE: 21289 APPROXIMATE AREA MEASURES USING ARBITRARY UNITS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21317 MEASURE PERIMETERS OF SOME FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21319 MEASURE FIGURES BY USING A GRID AND COUNTING SQUARES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21371 USE A TRACING TO DETERMINE IF TWO ANGLES ARE CONGRUENT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21373 IDENTIFY RIGHT ANGLES IN PICTURES OF GEOMETRIC FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21392 DETERMINE BY TRACING WHETHER TWO FIGURES ARE CONGRUENT.

NO IMPLEMENTATION RECORD 1973-1974

F7-02 (CONTINUED)

OBJECTIVE: 21394 DETERMINE BY TRACING OR FOLDING WHETHER A LINE IS A LINE OF SYMMETRY OF A GIVEN FIGURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21395 DETERMINE BY TRACING WHETHER TWO LINES ARE PERPENDICULAR AND IF AN ANGLE IS A RIGHT ANGLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21396 SELECT FROM A COLLECTION OF TRIANGLES THOSE TRIANGLES THAT ARE SCALENE, THOSE THAT ARE ISOSCELES, AND THOSE THAT ARE EQUILATERAL.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21412 USE FORMULAS IN FINDING THE AREAS OF TRIANGLES AND PARALLELOGRAMS (INCLUDING SQUARES AND OTHER RECTANGLES).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21413 USE FORMULAS IN FINDING VOLUMES OF CUBES AND OTHER RECTANGULAR SOLIDS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21414 USE A PROTRACTOR TO MEASURE ANGLES TO THE NEAREST DEGREE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21451 DETERMINE BY TRACING IF TWO FIGURES ARE CONGRUENT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21453 DETERMINE BY TRACING IF A LINE IS A LINE OF SYMMETRY OF A GIVEN FIGURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21482 COMPUTE PERIMETERS OF POLYGONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21483 COMPUTE AREAS OF TRIANGLES AND PARALLELOGRAMS (INCLUDING SQUARES AND OTHER RECTANGLES) GIVEN THE BASE AND HEIGHT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21484 COMPUTE THE VOLUME OF A RECTANGULAR SOLID GIVEN ITS THREE DIMENSIONS.

NO IMPLEMENTATION RECORD 1973-1974

F7-02 (CONTINUED)

OBJECTIVE: 21485 USE A PROTRACTOR TO FIND THE DEGREE MEASURE OF ANY ANGLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21487 FIND SURFACE AREAS OF SOME THREE-DIMENSIONAL FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21500 DETERMINE BY TRACING IF TWO FIGURES ARE CONGRUENT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21505 DETERMINE THE VARIOUS WAYS OF FITTING A TRACING OF A FIGURE BACK ONTO THE FIGURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21506 DETERMINE BY TRACING IF A GIVEN LINE IS A LINE OF SYMMETRY OF A FIGURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21538 USE FORMULAS TO FIND THE AREA AND CIRCUMFERENCE OF A CIRCLE FROM ITS RADIUS.

NO IMPLEMENTATION RECORD 1973-1974

F7-02 (CONTINUED)

SOURCE: IOX

OBJECTIVE: 09523 AREAS AND PERIMETERS: GIVEN GEOMETRIC FIGURES (TRIANGLE, SQUARE, RECTANGLE), THE CHILD WILL BE ABLE TO RECOGNIZE EQUIVALENT PERIMETER OR AREA, AND THE CHILD WILL BE ABLE TO GIVE THE SIZE (AREA) OR DISTANCE AROUND (PERIMETER) IN TERMS OF UNIT MEASURES OF AREA OR LENGTH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09524 GIVEN TWO FIGURES OF THE SAME FORM, THE CHILD WILL BE ABLE TO DETERMINE IF THEY ARE THE SAME SIZE BY PLACING ONE ON TOP OF THE OTHER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09525 GIVEN A PLANE GEOMETRIC FIGURE AND OUTLINE DRAWINGS OF THAT FIGURE IN DIFFERENT SIZES, THE CHILD WILL CHOOSE THE OUTLINE WHICH BEST FITS THE FIGURE BEFORE SUPERIMPOSING THE FIGURE ON THE DRAWING.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09526 GIVEN A STANDARD UNIT OF AREA MEASURE, THE CHILD CAN DETERMINE THE AREA OF A RECTANGLE BY COUNTING.

NO IMPLEMENTATION RECORD 1973-1974

F7-02 (CONTINUED)

OBJECTIVE: 09527 GIVEN TWO RECTANGLES OF THE SAME AREA BUT DIFFERENT DIMENSIONS, THE CHILD CAN IDENTIFY THE AREAS AS EQUAL, USING UNIT SQUARES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09528 GIVEN A STANDARD UNIT OF (LINEAR) MEASURE, THE CHILD CAN DETERMINE HOW FAR IT IS AROUND ANY RECTANGLE, SQUARE, OR TRIANGLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09529 GIVEN RECTANGLES, TRIANGLES, OR SQUARES OF THE SAME PERIMETER, THE CHILD CAN IDENTIFY THE PERIMETERS AS EQUAL USING UNIT LENGTHS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09530 GIVEN A SET OF PROPORTIONAL RECTANGLES, THE CHILD CAN ORDER THEM BY LENGTH AND WIDTH IN A SQUARE ARRAY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18138 USE A RULER TO MEASURE THE SIDES OF A RECTANGLE.

NO IMPLEMENTATION RECORD 1973-1974

F7-02 (CONTINUED)

OBJECTIVE: 18139 USE A RULER TO MEASURE THE DISTANCE AROUND A RECTANGLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18140 COUNT SQUARES AND PARTS OF SQUARES TO FIND THE AREA OF A RECTANGLE AND A TRIANGLE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18141 FIND THE AREA OF A RECTANGLE, GIVEN THE LENGTHS OF ITS SIDES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18497 (A-D) COUNT SQUARES AND PARTS OF SQUARES TO FIND THE AREA OF AN ODD-SHAPED FIGURE, A PARALLELOGRAM, AND A RIGHT TRIANGLE AND TO ESTIMATE THE AREA OF A CIRCLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18498 (A-C) FIND THE PERIMETER OF AN ODD-SHAPED FIGURE GIVEN ALL SIDE LENGTHS, OF A RECTANGLE GIVEN TWO SIDE LENGTHS, AND OF A SQUARE GIVEN ONE SIDE LENGTH

NO IMPLEMENTATION RECORD 1973-1974

F7-02 (CONTINUED)

OBJECTIVE: 18499 (D) FIND THE CIRCUMFERENCE OF A CIRCLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18500 (A,B) FIND THE AREA OF A RECTANGLE (L=X, W=Y) AND OF A RIGHT TRIANGLE (B=X, H=Y)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18501 (C) FIND THE AREA OF A PARALLELOGRAM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18502 (D) FIND THE AREA OF A TRIANGLE THAT IS NOT A RIGHT TRIANGLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18503 (E) FIND THE AREA OF A CIRCLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18504 (A) COUNT CUBES TO FIND THE VOLUME OF AN ODD-SHAPED FIGURE

NO IMPLEMENTATION RECORD 1973-1974

F7-02 (CONTINUED)

OBJECTIVE: 18505 (B) FIND THE VOLUME OF A RECTANGULAR PRISM
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NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18506 (C) FIND THE VOLUME OF A TRIANGULAR PRISM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18507 (D) FIND THE VOLUME OF A CYLINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18508 (A-C) FIND THE SURFACE AREA OF AN ODD-SHAPED SPACE FIGURE BUILT OF CUBES, OF A RECTANGULAR PRISM, AND OF A TRIANGULAR PRISM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18509 (D) FIND THE SURFACE AREA OF A CYLINDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18510 (A,B) USE THE PYTHAGOREAN THEOREM TO FIND THE LENGTHS OF THE SIDES OF A RIGHT TRIANGLE

NO IMPLEMENTATION RECORD 1973-1974

F7-02 (CONTINUED)

OBJECTIVE: 18511 (C,D) FIND THE LENGTH OF ONE SIDE OF A RHOMBUS GIVEN THE PERIMETER, AND THE LENGTH OF A RECTANGLE GIVEN THE AREA AND THE WIDTH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18512 (A-D) READ ANGLE MEASURE FROM A PROTRACTOR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18513 (A,B) TELL WHEN TWO ANGLES ARE CONGRUENT

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-03 GEO. SHAPES/CONSTRUCTION

SOURCE: CRTR

OBJECTIVE: 15194 GIVEN ROWS OF SHAPES AND ORALLY SPECIFIED NAMES OF TWO-DIMENSIONAL AND THREE-DIMENSIONAL SHAPES, THE STUDENT IDENTIFIES SHAPES WITH 95% ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15446 GIVEN VARIOUS SHAPES, THE PUPIL IS ABLE TO IDENTIFY THE SHAPE THAT THE TEACHER NAMES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15447 GIVEN A SERIES OF OBJECTS, THE PUPIL IS ABLE TO IDENTIFY THE BIGGEST OBJECT IN THE SERIES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 15448 GIVEN A SERIES OF OBJECTS, THE PUPIL IS ABLE TO IDENTIFY THE SMALLEST OBJECT IN THE SERIES.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: HEATH

OBJECTIVE: 21107 SELECT CIRCLES FROM A COLLECTION OF FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21112 SELECT SQUARES AND TRIANGLES FROM COLLECTIONS OF FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21184 DRAW A SEGMENT BETWEEN TWO GIVEN POINTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01282	ARITHMETIC STEP BY STEP, KIT A, MEASURES, LE	1	2.00	6- 6 TO 6- 8	**************

F7-03 (CONTINUED)

OBJECTIVE: 21218 DRAW DIAGONALS OF SOME SIMPLE POLYGONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21219 DRAW DIAMETERS AND RADII OF CIRCLES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21266 DRAW SEGMENTS AND PICK OUT SEGMENTS FROM A COLLECTION OF FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21268 IDENTIFY SOME QUADRILATERIALS AS RECTANGLES OR SQUARES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21269 TRACE GEOMETRIC FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21270 USE A TRACING TO DETERMINE IF TWO FIGURES ARE CONGRUENT.

NO IMPLEMENTATION RECORD 1973-1974

F7-03 (CONTINUED)

OBJECTIVE: 21271 IDENTIFY LINES OF SYMMETRY OF SOME FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21272 IDENTIFY CORRESPONDING PARTS OF CONGRUENT FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21299 DRAW A SEGMENT AND PICK OUT SEGMENTS THAT ARE PARTS OF A FIGURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21301 IDENTIFY SOME POLYGONS AS TRIANGLES, QUADRILATERALS, PENTAGONS, HEXAGONS, AND OCTAGONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21302 IDENTIFY SOME QUADRILATERALS AS PARALLELOGRAMS, RECTANGLES, SQUARES, AND KITES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21303 TRACE GEOMETRIC FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

F7-03 (CONTINUED)

OBJECTIVE: 21304 USE A TRACING TO DETERMINE IF TWO FIGURES ARE CONGRUENT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21370 SELECT PICTURES OF SEGMENTS, RAYS, LINES, AND ANGLES FROM A COLLECTION OF PICTURES OF GEOMETRIC FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21372 DRAW PICTURES OF PERPENDICULAR LINES AND PARALLEL LINES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21391 SELECT POINTS, LINES, RAYS, SEGMENTS, AND ANGLES FROM A COLLECTION OF FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21393 LIST CORRESPONDING PARTS FOR CONGRUENT FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21396 SELECT FROM A COLLECTION OF TRIANGLES THOSE TRIANGLES THAT ARE SCALENE, THOSE THAT ARE ISOCELES, AND THOSE THAT ARE EQUILATERAL.

NO IMPLEMENTATION RECORD 1973-1974

F7-03 (CONTINUED).

OBJECTIVE: 21397 CONSTRUCT WITH STRAIGHTEDGE AND COMPASS EQUILATERAL TRIANGLES AND ISOSCELES TRIANGLES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21452 SELECT FROM A COLLECTION OF TRIANGLES THOSE THAT ARE SCALENE, THOSE THAT ARE ISOSCELES, AND THOSE THAT ARE EQUILATERAL.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21498 SELECT FROM A SET OF FIGURES THOSE THAT ARE POINTS, LINES, RAYS, SEGMENTS, AND ANGLES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21501 SKETCH A BISECTOR OF A SEGMENT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21502 SKETCH THE PERPENDICULAR BISECTOR OF A SEGMENT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21503 SKETCH THE BISECTOR OF AN ANGLE.

NO IMPLEMENTATION RECORD 1973-1974

F7-03 (CONTINUED)

OBJECTIVE: 21504 LIST THE CORRESPONDING PARTS FOR A FITTING OF TWO CONGRUENT FIGURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21507 SELECT FROM A SET OF TRIANGLES THOSE THAT ARE SCALENE, ISOSCELES, AND EQUILATERAL.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IAMS

OBJECTIVE: 21003 DRAW A RECTANGLE WHEN TOLD TO DO SO WITHOUT ANY OTHER VISUAL OR VERBAL CUES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21004 DRAW A SQUARE WHEN TOLD TO DO SO WITHOUT ANY OTHER VISUAL OR VERBAL CUES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21005 DRAW A TRIANGLE WHEN TOLD TO DO SO WITHOUT ANY OTHER VISUAL OR VERBAL CUES.

NO IMPLEMENTATION RECORD 1973-1974

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F7-03 (CONTINUED)

OBJECTIVE: 21006 DRAW A CIRCLE WHEN TOLD TO DO SO WITHOUT ANY OTHER VISUAL OR VERBAL CUES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21007 GIVEN A PICTURE OF GEOMETRIC STIMULUS OBJECT AND A SET OF 3 DIFFERENT GEOMETRIC RESPONSE OPTIONS ONE OF WHICH IS SIMILAR BUT NOT IDENTICAL TO THE STIMULUS FIGURE, POINT TO THE SIMILAR RESPONSE FIGURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21008 GIVEN A MIXED ARRAY OF 12 GEOMETRIC SHAPES 4 OF WHICH BELONG TO THE SAME SET AND EACH OF THE OTHER 8 OBJECTS BEING UNITARY SETS UNTO THEMSELVES, MARK EACH OF THE 4 COMMON SET ELEMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21009 GIVEN 3 GEOMETRIC OBJECTS OF THE SAME SHAPE BUT OF DIFFERENT SIZES IN A ROW AND WHICH ARE REPEATED IN THE SAME ORDER TWICE HORIZONTALLY, DRAW THE OBJECT THAT WOULD COME NEXT WHEN THE SERIES IS TERMINATED AT ANY POINT AFTER THE TWO REPETITIONS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IDAHO TMR SKILLS ASSESSMENT

OBJECTIVE: 83116 THE STUDENT WILL IDENTIFY BY POINTING OBJECTS THAT ARE ROUND, SQUARE, TRIANGULAR

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18524 (A-E) IDENTIFY A CURVE, A CLOSED CURVE, AND A SIMPLE CLOSED CURVE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18525 (A-E) MATCH THE TERMS LINE, LINE SEGMENT, ANGLE, CIRCLE, AND RAY WITH A DESCRIPTION OF EACH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18526 (A-C) TELL WHETHER A POINT IS INSIDE, OUTSIDE, OR ON A CLOSED FIGURE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18527 GIVE THE TERM FOR LINES IN A PLANE THAT DO NOT INTERSECT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18528 INDICATE (A-D) WHETHER OR NOT A GIVEN SURFACE WOULD BE PART OF A PLANE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18529 (A,B) NAME TWO PLANES THAT ARE PARALLEL AND TWO THAT INTERSECT, GIVEN A PICTURE OF A CUBE WITH ITS FACES LABELED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18530 (C) TELL WHAT IS FORMED WHEN TWO PLANES INTERSECT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18531 (A-D) IDENTIFY SYMMETRIC FIGURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18532 (A,B) IDENTIFY LINES OF SYMMETRY IN A TRIANGLE AND IN A CIRCLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18533 (A) IDENTIFY THE ANGLE FORMED BY PERPENDICULAR LINES

NO IMPLEMENTATION RECORD 1973-1974

F7-03 (CONTINUED)

OBJECTIVE: 18534 (B,C) DRAW AN ACUTE AND AN OBTUSE ANGLE AND IDENTIFY EACH BY TELLING WHETHER IT IS LARGER OR SMALLER THAN A 90 DEGREE ANGLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18535 (A-D) DRAW AN ACUTE AND AN OBTUSE ANGLE AND IDENTIFY EACH BY TELLING WHETHER IT IS LARGER OR SMALLER THAN A 90 DEGREE ANGLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18536 FIND THE PAIRS OF CONGRUENT ANGLES FORMED BY TWO INTERSECTING LINES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18537 (A-D) IDENTIFY SUPPLEMENTARY AND CONGRUENT ANGLES, GIVEN TWO PARALLEL LINES CUT BY A TRANSVERSAL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18538 TELL WHAT RELATION TWO LINES HAVE TO EACH OTHER IF THEY ARE BOTH PERPENDICULAR TO A THIRD LINE IN A PLANE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18539 (A-F) IDENTIFY SEGMENTS AND LINES RELATED TO A CIRCLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18540 (A-D) IDENTIFY TYPES OF TRIANGLES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18541 SELECT ALL THE QUADRILATERALS FROM A GROUP OF GEOMETRIC FIGURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18542 SELECT ALL THE PARALLELOGRAMS FROM A GROUP OF GEOMETRIC FIGURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18543 SELECT ALL THE RECTANGLES FROM A GROUP OF GEOMETRIC FIGURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18544 SELECT ALL THE RHOMBUSES FROM A GROUP OF GEOMETRIC FIGURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18545 SELECT ALL THE SQUARES FROM A GROUP OF GEOMETRIC FIGURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18546 (A-C) USE LETTERED VERTICES TO NAME A DIAGONAL, A VERTEX, AND A SIDE OF A POLYGON

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18547 (A,B) DESCRIBE THE RELATION BETWEEN OPPOSITE SIDES AND ANGLES OF A PARALLELOGRAM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18548 (A,B) IDENTIFY THE CLOSED SPACE FIGURE MADE UP OF SIX SQUARE SURFACES AND NAME A SURFACE OF THAT CLOSED SPACE FIGURE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18549 (A) IDENTIFY THE CLOSED SPACE FIGURE MADE UP OF TWO EQUAL-SIZED HEXAGONAL BASES AND SIX OTHER FACES

NO IMPLEMENTATION RECORD 1973-1974

F7-03 (CONTINUED)

OBJECTIVE: 18550 (B) IDENTIFY THE CLOSED SPACE FIGURE THAT HAS ONE TRIANGULAR BASE AND THREE OTHER FACES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18551 (C-E) DESCRIBE A RECTANGULAR PRISM BY TELLING HOW MANY BASES IT HAS, WHAT SHAPE THEY ARE, AND HOW MANY OTHER FACES IT HAS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18552 (F) IDENTIFY THE CLOSED SPACE FIGURE MADE UP OF THE SET OF POINTS THAT ARE ALL THE SAME DISTANCE FROM ANOTHER POINT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18553 (A-D) IDENTIFY CLOSED SPACE FIGURES FROM DRAWINGS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - PENN STATE UNIV.

OBJECTIVE: 07124 HOLDS A ROUND OBJECT FOR 30 SECONDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07125 HOLDS A SQUARE OBJECT FOR 30 SECONDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07126 HOLDS A RECTANGULAR SHAPE FOR 30 SECONDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07130 SORTS OBJECTS INTO PILES OF LIKE SHAPES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07131 SORTS 4 DIFFERENT SHAPES INTO PILES OF THOSE SHAPES RESPECTIVELY

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 99028 THE STUDENT WILL BE ABLE TO DRAW THE FOLLOWING GEOMETRIC FIGURES: CIRCLE, SQUARE, TRIANGLE, RECTANGLE AND DIAMOND ADHERING TO THE FOLLOWING GUIDELINES: 1/ STARTING AT THE TOP OF THE FIGURE 2/ DRAWING COUNTER CLOCKWISE 3/ CLOSING THE FIGURE AND 4/ THE SIZE AND SHAPE WILL BE A CLOSE APPROXIMATION OF THE TEMPLATES PRESENTED

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OBJECTIVE:  99028  (CONTINUED)
RESOURCE                                                    NUMBER     EFF    CHRONOLOGICAL        MENTAL
NUMBER                          TITLES                      OF USES   RATING       AGE                 AGE
                                                                      (1=HI)  -1SD TO +1SD     -1SD TO +1SD
        MATERIALS
03519  DUBNOFF SCHOOL PROGRAM, LEVEL 1                         1      ***.**  6- 6 TO  6- 6    4- 6 TO  4- 6
04003  DETECT TACTILE PROGRAM                                  1      ***.**  6- 6 TO  6- 6    4- 6 TO  4- 6
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SOURCE:  RURAL UNIT



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OBJECTIVE:  90100  WHEN PRESENTED WITH AN OBJECT IN THE SHAPE OF A SQUARE THE CHILD
                   WILL VERBALLY STATE THAT IT IS A SQUARE.


RESOURCE                                                    NUMBER     EFF    CHRONOLOGICAL        MENTAL
NUMBER                          TITLES                      OF USES   RATING       AGE                 AGE
                                                                      (1=HI)  -1SD TO +1SD     -1SD TO +1SD
        METHODS
52133  IDENTIFIES CIRCULAR ITEMS IN ENVIRONMENT                1        1.00  3- 9 TO  3- 9    **************
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OBJECTIVE:  90107  WHEN GIVEN AN OBJECT IN THE FORM OF A CIRCLE, THE STUDENT
                   WILL VERBALLY STATE THAT IT IS A CIRCLE.


RESOURCE                                                    NUMBER     EFF    CHRONOLOGICAL        MENTAL
NUMBER                          TITLES                      OF USES   RATING       AGE                 AGE
                                                                      (1=HI)  -1SD TO +1SD     -1SD TO +1SD
        MATERIALS
06145  SHORTCUT                                                1        1.00  3- 9 TO  3- 9    **************
        METHODS
52133  IDENTIFIES CIRCULAR ITEMS IN ENVIRONMENT                1        1.00  3- 9 TO  3- 9    **************
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OBJECTIVE: 90324 STUDENT WILL TRACE 8 FAMILIAR GEOMETRIC FIGURES WHEN GIVEN DLM TRACING PAPER AND DLM DESIGN CARD.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-04 MONEY/MAKING CHANGE

SOURCE: IDAHO TMR SKILLS ASSESSMENT

OBJECTIVE: 83056 THE STUDENT WILL MAKE CORRECT CHANGE FOR A QUARTER, USING PENNIES, NICKELS AND DIMES

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52624	MAKING CHANGE FOR NICKEL, DIME, AND QUARTER	1	3.00	15- 3 TO 15- 3	**************

SOURCE: RURAL UNIT

OBJECTIVE: 90460 WHEN SHOWN CARDS WITH AN AMOUNT OF MONEY RANGING FROM 1 TO 5 CENTS PRINTED ON EACH, STUDENT WILL COUNT OUT PROPER AMOUNT USING COINS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	1	1.00	17- 7 TO 17- 7	**************

OBJECTIVE: 90461 WHEN SHOWN CARDS WITH AN AMOUNT OF MONEY RANGING FROM 1 TO 9 CENTS STUDENT WILL COUNT OUT PROPER AMOUNT USING COINS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90463 STUDENT WILL IDENTIFY NUMERICAL VALUE IN CENTS, WHEN SHOWN PENNY, NICKEL OR DIME

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	1	1.00	17- 7 TO 17- 7	**************

OBJECTIVE: 90464 STUDENT WILL IDENTIFY NUMERICAL VALUE IN CENTS OF PENNY OR NICKEL

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90465 STUDENT WILL NAME A PENNY AND NICKEL WHEN PRESENTED THE COIN

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
90450	TRACING BOARD	1	1.00	19- 7 TO 19- 7	**************
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	2	1.00	17- 2 TO 20- 0	**************

CONTENT AREA: F7-05 MEASUREMENT CONCEPTS

SOURCE: HEATH

OBJECTIVE: 21104 DETERMINE WHICH OF SEVERAL OBJECTS IS TALLEST (SHORTEST

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21105 DETERMINE WHICH OF SEVERAL OBJECTS IS LONGEST (SHORTEST).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21106 DETERMINE WHICH OF SEVERAL SIMILAR OBJECTS IS LARGEST (SMALLEST).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21131 TELL WHICH OF TWO SIMILAR OBJECTS IS SMALLER (LARGER).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21135 DETERMINE WHICH OF SEVERAL SIMILAR OBJECTS IS LARGEST OR SMALLEST.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IAMS

OBJECTIVE: 21002 GIVEN A PICTORIAL SET OF OBJECTS, POINT TO THE OBJECT THAT IS ASSOCIATED WITH THE FOLLOWING VERBALLY PRESENTED MEASUREMENT TERMS:
AHEAD OF TIME, ON TIME, LATE; NIGHT, DAY; WINTER, SUMMER; CURVED, STRAIGHT; MORNING, AFTERNOON; NOON; JARFUL; CUPFUL; SPOONFUL; PAIR; HANDFUL; HOUR; GROUP; DIME; DOLLAR; BOXFUL; PAILFUL; GLASSFUL; TEASPOONFUL; TABLESPOONFUL; CLOCK; O'CLOCK; NICKEL; PENNY.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18106 COMPARE LENGTHS OF OBJECTS TO TELL WHICH IS LONGEST AND WHICH IS SHORTEST.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03564	ARITHMETIC 3	1	2.00	9- 8 TO 9- 8	**************
03912	ELEMENTARY SCHOOL MATHEMATICS, BOOK 1	1	***.**	9- 8 TO 9- 8	**************
04002	MATH INVOLVEMENT PROGRAM	1	***.**	9- 8 TO 9- 8	**************

F7-05 (CONTINUED)

OBJECTIVE: 18107 COMPARE LENGTHS OF OBJECTS TO TELL WHICH ARE THE SAME.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18108 DESCRIBE THE LENGTH OF AN OBJECT BY COMPARING IT WITH A NUMBER OF SMALLER OBJECTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18109 DESCRIBE HEIGHT OR LENGTH BY COMPARING AN OBJECT WITH A NONSTANDARD UNIT OF MEASURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18517 (A,B) TELL THE GREATEST POSSIBLE ERROR, GIVEN THE PRECISION OF A MEASUREMENT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18518 (A-D) GIVE THE LENGTH OF AN OBJECT TO THE NEAREST INCH, 1/2 INCH, AND 1/4 INCH, AND TELL WHICH MEASUREMENT IS MOST PRECISE

NO IMPLEMENTATION RECORD 1973-1974

F7-05 (CONTINUED)

OBJECTIVE: 18519 (A-D) DETERMINE THE PRECISION OF A GIVEN MEASUREMENT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18520 (A,B) TELL WHICH OF TWO MEASUREMENTS OF THE SAME THING IS MORE PRECISE

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - PENN STATE UNIV.

OBJECTIVE: 07142 DETERMINES WHICH PILE OF OBJECTS IS THE TALLER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07143 DIVIDES 10 OBJECTIVES WHICH DIFFER ONLY IN SIZE INTO TWO PILES OF BIG AND LITTLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07144 COMPARES ITEMS TO DETERMINE WHICH IS THE LARGER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 07145 COMPARES ITEMS TO DETERMINE WHICH IS THE SMALLER

NO IMPLEMENTATION RECORD 1973-1974

F7-05 (CONTINUED)

SOURCE: RURAL UNIT

OBJECTIVE: 90109 GIVEN TWO CYLINDERS FROM THE GRADED PYRAMID TOY THE STUDENT WILL BE ABLE TO PICK THE "BIGGER ONE" UPON HEARING THE COMMAND.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-06 METRIC UNITS

SOURCE: HEATH

OBJECTIVE: 21172 MEASURE SOME LENGTHS TO THE NEAREST CENTIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21186 MEASURE THE LENGTH OF A SEGMENT TO THE NEAREST INCH AND TO THE NEAREST CENTIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21241 MEASURE LENGTHS TO THE NEAREST CENTIMETER.

NO IMPLEMENTATION RECORD 1973-1974

F7-06 (CONTINUED)

OBJECTIVE: 21242 DRAW SEGMENTS FOR LENGTHS GIVEN IN CENTIMETERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21246 ESTIMATE QUITE ACCURATELY SOME SHORT LENGTHS IN INCHES AND IN CENTIMETERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21288 MEASURE LENGTHS USING DECIMETERS OR CENTIMETERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21316 MEASURE LENGTHS TO THE NEAREST INCH, HALF-INCH, QUARTER-INCH, OR CENTIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21321 MAKE SOME SIMPLE CONVERSIONS IN THE METRIC SYSTEM OF LENGTH MEASURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21323 USE DECIMALS TO WRITE ABOUT SOME MEASUREMENTS IN THE METRIC SYSTEM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21411 MEASURE LENGTHS USING THE METRIC SYSTEM AS PRECISELY AS TO THE NEAREST MILLIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21415 MAKE CONVERSIONS WITHIN THE ENGLISH SYSTEM OF LINEAR MEASURE AND WITHIN THE METRIC SYSTEM OF LINEAR MEASURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21480 MEASURE LENGTHS USING EITHER A) THE ENGLISH SYSTEM OR B) THE METRIC SYSTEM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21481 MAKE CONVERSIONS WITHIN A) THE ENGLISH SYSTEM OR B) THE METRIC SYSTEM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21486 MAKE CONVERSIONS FROM ENGLISH TO METRIC SYSTEM AND VICE VERSA.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

F7-06 (CONTINUED)

OBJECTIVE: 18113 MEASURE A LINE SEGMENT TO THE NEAREST CENTIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18474 (E,F) CONVERT FROM ENGLISH TO METRIC UNITS OF WEIGHT AND LIQUID MEASUREMENT, GIVEN A TABLE OF EQUIVALENT MEASURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18476 (C,D) MULTIPLY A METRIC MEASUREMENT CARRIED OUT TO ONE DECIMAL PLACE BY A ONE-DIGIT NUMBER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18516 (A-D) CHOOSE AN APPROPRIATE METRIC UNIT OF MEASUREMENT FOR MEASURING A SMALL OBJECT OR A LARGE OBJECT

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-07 MONEY CONCEPTS

SOURCE: COMPET

OBJECTIVE: 06336 IDENTIFIES COINS BY NAME

NO IMPLEMENTATION RECORD 1973-1974

F7-07 (CONTINUED)

OBJECTIVE: 06337 IDENTIFIES COINS BY VALUE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06338 COUNTS BY ONES FROM A GIVEN NUMBER TO THE NEXT MULTIPLE OF TEN

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06339 COUNTS TO 100 BY 5'S, 10'S- 25'S

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06340 COUNTS TO 100 BY 10'S FROM A NUMBER ENDING IN 5

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06341 COUNTS COMMON COIN COMBINATIONS FOR AMOUNTS UP TO 25 CENTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06342 COUNTS COMMON COIN COMBINATION FOR AMOUNTS FROM 25 CENTS UP TO $10.00

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06343 IDENTIFIES CURRENCY UP TO TWENTY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06344 COUNTS COMMON COMBINATIONS OF CURRENCY UP TO $20.00

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06345 COUNTS COMMON COMBINATIONS OF CURRENCY UP TO $100.00

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06346 COUNTS CHANGE WHEN PAYING WITH QUARTER/HALF DOLLAR/DOLLAR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06347 COUNTS CHANGE WHEN PAYING WITH 5/10/20 DOLLARS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01454	USING DOLLARS AND SENSE	1	1.00	11- 7 TO 11- 7	13- 1 TO 13- 1

OBJECTIVE: 06348 READS MONEY NUMBERS APPEARING AS PRICES OF 99 CENTS OR LESS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01452	MONEY MAKES SENSE	1	1.00	11-11 TO 11-11	9- 1 TO 9- 1

OBJECTIVE: 06349 READS MIXED MONEY NUMBERS WHEN APPEARING AS PRICES OF $1.00 OR MORE

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: HEATH

OBJECTIVE: 21154 PICK FROM A COLLECTION OF DIMES AND PENNIES THE CORRECT NUMBER OF COINS TOTALING A GIVEN VALUE.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01250	ARITHMETIC STEP BY STEP, KIT A, MONEY	1	1.00	13- 1 TO 13- 1	**************
01251	ARITHMETIC STEP BY STEP, KIT A, MONEY, LEVEL	1	1.00	13- 1 TO 13- 1	**************
01602	BEGINNINGS IN MASTERING MATHEMATICS, 1ST GR.	1	2.00	9-10 TO 9-10	4- 3 TO 4- 3
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	13- 1 TO 13- 1	**************
07000	ENLARGED FLANNEL U.S. COINS	1	2.00	9-10 TO 9-10	4- 3 TO 4- 3

OBJECTIVE: 21155 GIVE THE TOTAL VALUE OF A COLLECTION OF DIMES AND PENNIES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01452	MONEY MAKES SENSE	1	1.00	13- 1 TO 13- 1	**************
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	13- 1 TO 13- 1	**************
07000	ENLARGED FLANNEL U.S. COINS	1	1.00	9- 0 TO 9- 0	5-11 TO 5-11

OBJECTIVE: 21159 SELECT FROM A SET OF PENNIES, NICKELS, AND DIMES A SET OF COINS WITH A GIVEN TOTAL VALUE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21160 GIVE THE VALUE OF A COLLECTION OF PENNIES, NICKELS, AND DIMES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21200 GIVE THE VALUE IN CENTS OF A COLLECTION OF PENNIES, NICKELS, AND DIMES.

NO IMPLEMENTATION RECORD 1973-1974

F7-07 (CONTINUED)

OBJECTIVE: 21201 SELECT FROM A COLLECTION OF PENNIES, NICKELS, AND DIMES A SET OF COINS HAVING A GIVEN VALUE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21207 SELECT A SET OF COINS HAVING A GIVEN VALUE LESS THAN A DOLLAR FROM A COLLECTION OF PENNIES, NICKELS, DIMES, AND QUARTERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21208 FIND THE VALUE OF A SET OF PENNIES, NICKELS, DIMES, AND QUARTERS WHOSE VALUE IS LESS THAN A DOLLAR.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21230 TELL THE TOTAL VALUE OF A COLLECTION OF PENNIES, DIMES, AND DOLLARS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21231 CHOOSE A GIVEN VALUE FROM A COLLECTION OF PENNIES, DIMES, AND DOLLARS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21250 FIND THE TOTAL VALUE OF A QUANTITY OF COINS (PENNIES, NICKELS, DIMES, QUARTERS, AND HALF-DOLLARS).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21251 PICK OUT COINS TO MAKE A GIVEN VALUE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IDAHO EMR SKILLS ASSESSMENT

OBJECTIVE: 83133 THE STUDENT GIVES WORD FOR SIGNS RELATING TO MONEY

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
METHODS					
52729	USING ROADMAP	1	1.00	13-11 TO 13-11	**************

SOURCE: IOX

OBJECTIVE: 09537 MONEY: GIVEN PROBLEMS INVOLVING THE USE OF UNITED STATES COINS, THE CHILD CAN RECOGNIZE THE COINS AND SOLVE THE PROBLEMS.

OBJECTIVE: 09537 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01452	MONEY MAKES SENSE	1	1.00	11-11 TO 11-11	9- 1 TO 9- 1

SOURCE: SRA

OBJECTIVE: 18121 GIVE THE VALUE IN CENTS OF A PENNY, A NICKEL, AND A DIME.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18122 GIVE THE VALUE IN CENTS OF A QUARTER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18123 GIVE THE VALUE IN CENTS OF A HALF-DOLLAR AND A DOLLAR BILL.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18124 GIVE THE VALUE IN CENTS OF A SET OF COINS INCLUDING PENNIES, NICKELS, AND DIMES.

OBJECTIVE: 18124 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01452	MONEY MAKES SENSE	1	1.00	11-11 TO 11-11	9- 1 TO 9- 1

OBJECTIVE: 18125 GIVE THE VALUE IN CENTS OF A SET OF COINS INCLUDING A QUARTER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18126 GIVE THE VALUE IN CENTS OF A SET OF COINS INCLUDING A HALF-DOLLAR OR A DOLLAR.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01452	MONEY MAKES SENSE	4	1.00	7- 6 TO 9- 6	6-10 TO 8- 8

OBJECTIVE: 18127 MARK THE COINS NEEDED TO BUY AN ITEM, GIVEN A PICTURE OF THE ITEM WITH A PRICE TAG.

OBJECTIVE: 18127 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01251	ARITHMETIC STEP BY STEP, KIT A, MONEY, LEVEL	1	1.00	7- 8 TO 7- 8	**************
01452	MONEY MAKES SENSE	3	1.00	7- 4 TO 11- 8	6-10*TO* 9- 6

OBJECTIVE: 18128 WRITE AMOUNTS OF MONEY GREATER THAN ONE DOLLAR, USING A DOLLAR SIGN AND A DECIMAL POINT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18129 ADD AND SUBTRACT AMOUNTS OF MONEY GREATER THAN ONE DOLLAR, WRITTEN WITH A DOLLAR SIGN AND A DECIMAL POINT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01454	USING DOLLARS AND SENSE	3	**1.00	11- 1 TO 11- 3	8-11 TO 13- 3

OBJECTIVE: 18130 WORK PROBLEMS INCLUDING ADDING PRICES OF TWO ITEMS FINDING THE DIFFERENCE IN PRICE BETWEEN TWO ITEMS, FINDING THE PRICE OF SEVERAL OF ONE TYPE OF ITEM, AND DETERMINING CHANGE, GIVEN A PICTURE OF A GROUP OF ITEMS WITH PRICES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01450	MEASURE UP	1	1.00	11- 3 TO 11- 3	8- 8 TO 8- 8
01454	USING DOLLARS AND SENSE	2	1.00	11- 1 TO 11- 1	11- 7 TO 12-11
	METHODS				
53335	CLASSROOM STORE	3	1.00	8- 8 TO 10- 8	7- 4 TO 8- 6

OBJECTIVE: 18359 (A-D) USE A DOLLAR SIGN AND A DECIMAL POINT TO EXPRESS AN AMOUNT OF MONEY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18360 (A,B) FIND THE SALE PRICE OF AN OBJECT, GIVEN THE ORIGINAL PRICE AND RATE OF DISCOUNT; FIND A NEW PRICE, GIVEN THE PERCENTAGE OF PRICE INCREASE

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90460 WHEN SHOWN CARDS WITH AN AMOUNT OF MONEY RANGING FROM 1 TO 5 CENTS PRINTED ON EACH, STUDENT WILL COUNT OUT PROPER AMOUNT USING COINS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90461 WHEN SHOWN CARDS WITH AN AMOUNT OF MONEY RANGING FROM 1 TO 9 CENTS STUDENT WILL COUNT OUT PROPER AMOUNT USING COINS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	1	1.00	17- 7 TO 17- 7	**************

OBJECTIVE: 90463 STUDENT WILL IDENTIFY NUMERICAL VALUE IN CENTS, WHEN SHOWN PENNY, NICKEL OR DIME

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90464 STUDENT WILL IDENTIFY NUMERICAL VALUE IN CENTS OF PENNY OR NICKEL

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	TEST/TASK				
00100	FREQUENCY OF OCCURANCE (SPECIFIED TIME)	1	1.00	17- 7 TO 17- 7	**************

OBJECTIVE: 90465 STUDENT WILL NAME A PENNY AND NICKEL WHEN PRESENTED THE COIN

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-08 NONGEOMETRIC MEASUREMENT

SOURCE: COMPET

OBJECTIVE: 06324 DEMONSTRATES BASIC MEASUREMENT SKILLS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01270	ARITHMETIC STEP BY STEP, KIT A, TIME	1	***.**	7- 1 TO 7- 1	6-11 TO 6-11
01494	PLAYSTORE SCALE	1	1.00	7- 1 TO 7- 1	6-11 TO 6-11
	TEST/TASK				
00070	SULLIVAN PROGRAMMED READING - BOOK 7	1	2.00	7- 1 TO 7- 1	6-11 TO 6-11

OBJECTIVE: 06325 KNOWS BASIC LINEAR MEASUREMENT FACTS PERTAINING TO INCHES, FEET, YARD

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06326 MEASURES ITEMS OF LESS THAN 12 INCHES WITH A RULER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06327 MEASURES ITEMS OF MORE THAN 12 INCHES WITH A YARD STICK OR TAPE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06328 USES A CLOTH TAPE TO TAKE BODY MEASUREMENTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06329 KNOWS BASIC LIQUID/DRY MEASUREMENT FACTS PERTAINING TO TEASPOON, TABLESPOON, CUP, QUART, GALLON

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06330 MEASURES A WHOLE CUP

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06331 MEASURES A FRACTION OF A CUP

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06332 MEASURES WHOLE TABLESPOON/TEASPOON

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06333 MEASURES FRACTION OF A TABLESPOON/TEASPOON

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06334 KNOWS FACTS PERTAINING TO OUNCES/POUNDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06335 READS DIAL FACE CORRECTLY TO THE NEAREST WHOLE UNIT

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: HEATH

OBJECTIVE: 21170 MEASURE THE CAPACITY OF SOME CONTAINERS USING CUPS, PINTS, AND QUARTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21171 MEASURE SOME LENGTHS TO THE NEAREST INCH.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01450	MEASURE UP	1	2.00	11-11 TO 11-11	9- 1 TO 9- 1

OBJECTIVE: 21172 MEASURE SOME LENGTHS TO THE NEAREST CENTIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21185 MEASURE THE LENGTH OF A SEGMENT TO THE NEAREST UNIT USING A GIVEN ARBITRARY UNIT.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01282	ARITHMETIC STEP BY STEP, KIT A, MEASURES, LE	1	2.00	8- 2 TO 8- 2	9- 7 TO 9- 7

OBJECTIVE: 21186 MEASURE THE LENGTH OF A SEGMENT TO THE NEAREST INCH AND TO THE NEAREST CENTIMETER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01271	ARITHMETIC STEP BY STEP, KIT A, TIME, LEVEL	4	1.00	8- 7 TO 11- 3	6- 1 TO 8-11
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.00	8- 7 TO 10- 5	8- 9 TO 9- 5
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	3	1.00	8- 2 TO 11- 6	6- 1 TO 7- 9

OBJECTIVE: 21187 MEASURE THE LENGTH OF A SEGMENT USING FEET AND INCHES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01271	ARITHMETIC STEP BY STEP, KIT A, TIME, LEVEL	3	1.00	8- 7 TO 10- 1	6- 5 TO 9- 9
01282	ARITHMETIC STEP BY STEP, KIT A, MEASURES, LE	1	2.00	10- 5 TO 10- 5	**************
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.00	8- 7 TO 10- 5	8- 9 TO 9- 5
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	2	1.50	8-10 TO 9- 0	5-10 TO 8- 2

OBJECTIVE: 21205 MEASURE THE LENGTH OF A SEGMENT IN YARDS, FEET, AND INCHES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21210 MEASURE THE LIQUID CAPACITY OF SOME CONTAINERS IN CUPS, PINTS, AND QUARTS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05844	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	11- 1 TO 11- 1	8- 6 TO 8- 6

OBJECTIVE: 21238 MEASURE LENGTHS TO THE NEAREST INCH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21239 MEASURE LENGTHS TO THE NEAREST HALF-INCH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21240 DRAW SEGMENTS FOR LENGTHS GIVEN IN INCHES OR HALF-INCHES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21241 MEASURE LENGTHS TO THE NEAREST CENTIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21242 DRAW SEGMENTS FOR LENGTHS GIVEN IN CENTIMETERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21244 MEASURE LENGTHS TO THE NEAREST QUARTER-INCH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21245 DRAW SEGMENTS FOR LENGTHS GIVEN IN QUARTER INCHES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21246 ESTIMATE QUITE ACCURATELY SOME SHORT LENGTHS IN INCHES AND IN CENTIMETERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21286 MAKE SOME CONVERSIONS FROM ONE LIQUID MEASURE TO ANOTHER.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	8-10 TO 8-10	7-10 TO 7-10

OBJECTIVE: 21287 MEASURE LENGTHS USING YARDS, FEET, OR INCHES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21288 MEASURE LENGTHS USING DECIMETERS OR CENTIMETERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21290 APPROXIMATE VOLUME MEASURES USING ARBITRARY UNITS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21292 MEASURE LIQUID VOLUME USING CUPS, PINTS, QUARTS, HALF-GALLONS, AND GALLONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21316 MEASURE LENGTHS TO THE NEAREST INCH, HALF-INCH, QUARTER-INCH, OR CENTIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21318 MAKE SOME SIMPLE CONVERSIONS IN THE ENGLISH SYSTEM OF LENGTH MEASURES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21320 REPORT THE VOLUMES OF SOME FIGURES THAT ARE PICTURED AS A COLLECTION OF UNIT CUBES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21322 MEASURE TO THE NEAREST EIGHTH-INCH.

NO IMPLEMENTATION RECORD 1973-1974

F7-08 (CONTINUED)

OBJECTIVE: 21410 MEASURE LENGTHS USING THE ENGLISH SYSTEM AS PRECISELY AS TO THE NEAREST EIGHTH INCH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21411 MEASURE LENGTHS USING THE METRIC SYSTEM AS PRECISELY AS TO THE NEAREST MILLIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21415 MAKE CONVERSIONS WITHIN THE ENGLISH SYSTEM OF LINEAR MEASURE AND WITHIN THE METRIC SYSTEM OF LINEAR MEASURE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21480 MEASURE LENGTHS USING EITHER A) THE ENGLISH SYSTEM OR B) THE METRIC SYSTEM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21481 MAKE CONVERSIONS WITHIN A) THE ENGLISH SYSTEM OR B) THE METRIC SYSTEM.

NO IMPLEMENTATION RECORD 1973-1974

F7-08 (CONTINUED)

SOURCE: ICX

OBJECTIVE: 09531 STANDARD UNITS: GIVEN A STANDARD UNIT (LINEAR, WEIGHT, VOLUME, AREA), THE CHILD CAN MEASURE IN TERMS OF THIS UNIT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09532 (LINEAR) GIVEN A LINEAR (STRAIGHT) OBJECT AND A STANDARD UNIT OF LENGTH, THE CHILD WILL BE ABLE TO MEASURE THE LENGTH OF THE OBJECT IN TERMS OF THE UNIT LENGTH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09533 GIVEN AN EQUAL ARM BALANCE, SOME ONE-UNIT WEIGHTS, AND AN OBJECT TO BE WEIGHED, THE CHILD WILL BE ABLE TO STATE THE WEIGHT OF THE OBJECT IN TERMS OF THE NUMBER OF UNITS.
(NOTE: THE WEIGHT OF THE OBJECT SHOULD BE A WHOLE NUMBER OF UNIT WEIGHTS.)

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09538 GIVEN REAL COINS OR BILLS (1 , 5 , 10 , 25 , AND $1.00) THE CHILD CAN NAME THE COIN OR BILL.

NO IMPLEMENTATION RECORD 1973-1974

F7-08 (CONTINUED)

OBJECTIVE: 09539 GIVEN U.S. COINS OR BILLS, THE CHILD CAN STATE THE EQUIVALENT NUMBER OF PENNIES (NICKLES, DIMES, QUARTERS) EACH IS WORTH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09540 GIVEN THE PRICE OF AN OBJECT (LESS THAN $1.00), THE CHILD CAN PICK COINS EQUAL TO THE PRICE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18110 MEASURE A LINE SEGMENT TO THE NEAREST INCH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18111 MEASURE A LINE SEGMENT TO THE NEAREST 1/2 INCH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18112 MEASURE A LINE SEGMENT TO THE NEAREST 1/4 INCH.

NO IMPLEMENTATION RECORD 1973-1974

F7-08 (CONTINUED)

OBJECTIVE: 18113 MEASURE A LINE SEGMENT TO THE NEAREST CENTIMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18114 CHOOSE INCH, FOOT, YARD, OR MILE AS THE APPROPRIATE UNIT TO COMPLETE A MEASUREMENT, GIVEN THE OBJECT OR DISTANCE MEASURED AND THE NUMBER OF UNITS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18116 CONVERT PINTS TO CUPS, GIVEN THE NUMBER OF CUPS IN A PINT; CONVERT QUARTS TO PINTS, GIVEN THE NUMBER OF PINTS IN A QUART.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18117 CONVERT QUARTS TO GALLONS OR A FRACTION OF A GALLON, GIVEN THE NUMBER OF QUARTS IN A GALLON; CONVERT CUPS TO QUARTS, GIVEN THE NUMBER OF CUPS IN A QUART.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18118 ADD AND COMPARE WEIGHTS OF OBJECTS GIVEN IN POUNDS.

NO IMPLEMENTATION RECORD 1973-1974

F7-08 (CONTINUED)

OBJECTIVE: 18119 READ WEIGHTS FROM SCALES TO POUND, HALF-POUND AND QUARTER-POUND.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18120 CONVERT OUNCES TO POUNDS, GIVEN THE NUMBER OF OUNCES IN A POUND.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18469 (A-B) CONVERT FROM ONE ENGLISH UNIT OF LINEAR MEASUREMENT TO ANOTHER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18470 (A-C) CONVERT FROM ENGLISH TO METRIC UNITS OF LINEAR MEASUREMENT, GIVEN A TABLE OF EQUIVALENT MEASURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18471 (D-F) CONVERT FROM ONE METRIC UNIT OF LINEAR MEASUREMENT TO ANOTHER, GIVEN A TABLE OF EQUIVALENT MEASURES

NO IMPLEMENTATION RECORD 1973-1974

F7-08 (CONTINUED)

OBJECTIVE: 18472 LIST THE FOLLOWING IN ORDER OF LENGTH: 1CM, 1IN., 1 KM, 1M, 1MI., 1 YD.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18473 (A-D) CONVERT FROM ONE ENGLISH UNIT OF WEIGHT OR LIQUID MEASUREMENT TO ANOTHER, GIVEN A TABLE OF EQUIVALENT MEASURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18474 (E,F) CONVERT FROM ENGLISH TO METRIC UNITS OF WEIGHT AND LIQUID MEASUREMENT, GIVEN A TABLE OF EQUIVALENT MEASURES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18475 (A,B) ADD TWO MEASUREMENTS WITH OR WITHOUT CARRYING FROM ONE UNIT TO THE NEXT-LARGER UNIT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18476 (C,D) MULTIPLY A METRIC MEASUREMENT CARRIED OUT TO ONE DECIMAL PLACE BY A ONE-DIGIT NUMBER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18477 (E,F) SUBTRACT ONE MEASUREMENT FROM ANOTHER, WITH OR WITHOUT REGROUPING FROM THE LARGER UNITS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18478 (G,H) DIVIDE A MEASUREMENT CONTAINING MORE THAN ONE UNIT BY A ONE-DIGIT NUMBER, WITH OR WITHOUT CARRYING FROM THE LARGER UNIT TO THE SMALLER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18514 (A-D) DETERMINE WHICH OF TWO DIFFERENT-SIZED UNITS WOULD YIELD THE LARGER NUMBER OF UNITS WHEN BOTH ARE USED TO MEASURE THE SAME LENGTH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18515 (A-D) CHOOSE AN APPROPRIATE ENGLISH UNIT OF MEASUREMENT FOR MEASURING A SMALL OBJECT OR A LARGE OBJECT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18521 (C,D) TELL WHICH OF TWO MEASUREMENTS OF DIFFERENT THINGS IS MORE PRECISE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18522 (A,B) ADD TWO MEASUREMENTS GIVEN IN DECIMAL FORM, SHOWING THE CORRECT PRECISION OF MEASUREMENT IN THE SUM, WHEN THE ADDENDS HAVE BEEN CARRIED OUT TO DIFFERENT NUMBERS OF DECIMAL PLACES

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-09 OTHER MEASUREMENT

SOURCE: IOX

OBJECTIVE: 09534 (VOLUME) GIVEN A STANDARD OF VOLUME MEASURE AND AN UNKNOWN AMOUNT OF LIQUID, THE CHILD WILL BE ABLE TO MEASURE THE QUANTITY OF LIQUID.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09535 (VOLUME) GIVEN A SPECIFIC QUANTITY OF LIQUID AND TWO DIFFERENTLY SHAPED CONTAINERS, THE CHILD WILL COMPREHEND THAT THE QUANTITY OF LIQUID IS UNCHANGED WHEN IT IS POURED FROM THE FIRST CONTAINER INTO THE SECOND.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-10 TELLING TIME

SOURCE: COMPET

OBJECTIVE: 06355 DISTINGUISHES BETWEEN HOUR AND MINUTE HANDS OF CLOCK

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06356 TELLS TIME TO THE NEAREST HOUR

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01271	ARITHMETIC STEP BY STEP, KIT A, TIME, LEVEL	1	1.00	7-10 TO 7-10	**************
01272	ARITHMETIC STEP BY STEP, KIT A, TIME, LEVEL	1	1.00	7-10 TO 7-10	**************
01511	JUDY MINI-CLOCKS	1	1.00	7-10 TO 7-10	**************

OBJECTIVE: 06357 TELLS TIME TO THE NEAREST FIVE MINUTES

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01470	CLOCK FACE STAMP	1	1.00	9- 6 TO 9- 6	7- 2 TO 7- 2
01510	JUDY PRIMARY CLOCK	1	1.00	9- 6 TO 9- 6	7- 2 TO 7- 2

OBJECTIVE: 06358 TELLS TIME ON THE BEFORE SIDE OF THE CLOCK

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06359 TELLS TIME TO THE NEAREST MINUTE

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01456	TIME AND TELLING TIME	1	3.00	8-10 TO 8-10	9- 2 TO 9- 2
01575	TELL TIME QUIZMO	1	2.00	8-10 TO 8-10	9- 2 TO 9- 2
03203	JUDY CLOCK	2	2.00	8-10 TO 8-10	9- 2 TO 9- 2
05416	TIME, LEVEL 2	2	2.00	8-10 TO 8-10	9- 2 TO 9- 2

OBJECTIVE: 06360 SETS CLOCK HANDS TO A SPECIFIC TIME

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06361 SETS ALARM CLOCK TO RING AT A SPECIFIC TIME

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06362 STATES THAT A.M. MEANS BEFORE NOON AND P.M. MEANS AFTERNOON

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: HEATH

OBJECTIVE: 21163 TELL TIME AT THE HALF HOUR.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	8-10 TO 8-10	7-10 TO 7-10

OBJECTIVE: 21183 TELL TIME TO THE HOUR AND THE HALF HOUR.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01262	ARITHMETIC STEP BY STEP, KIT A, CALENDAR, LE	1	1.00	10- 4 TO 10- 4	6-11 TO 6-11
01263	ARITHMETIC STEP BY STEP, KIT A, CALENDAR, LE	1	1.00	10- 4 TO 10- 4	6-11 TO 6-11
01272	ARITHMETIC STEP BY STEP, KIT A, TIME, LEVEL	1	2.00	9- 1 TO 9- 1	**************
01456	TIME AND TELLING TIME	1	2.00	9- 1 TO 9- 1	**************
01511	JUDY MINI-CLOCKS	1	1.00	9- 1 TO 9- 1	**************
90283	CONCENTRATION GAME	1	1.00	9- 1 TO 9- 1	**************

OBJECTIVE: 21206 TELL TIME AT THE QUARTER HOURS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21229 TELL TIME TO THE HALF HOUR.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21263 TELL TIME-MULTIPLES OF 5 MINUTES.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	4	1.75	8-11 TO 11- 1	7- 7 TO 8- 5

SOURCE: IDAHO EMR SKILLS ASSESSMENT

OBJECTIVE: 83134 THE STUDENT WILL BE ABLE TO SET AN ALARM CLOCK

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52723	SETTING TIME AND ALARM	1	1.00	13-11 TO 13-11	**************

SOURCE: IOX

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OBJECTIVE:  09545  GIVEN A REPRESENTATION OF A CLOCK WITH THE HANDS
                   SHOWING AN EXACT HOUR, THE CHILD WILL NAME THE HOUR.

                          NO IMPLEMENTATION RECORD 1973-1974


SOURCE:  SRA


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OBJECTIVE:  18131  READ TIME FROM A CLOCK AT THE HOUR OR HALF-HOUR.

RESOURCE                                           NUMBER    EFF   CHRONOLOGICAL      MENTAL
NUMBER                    TITLES                   OF USES  RATING      AGE             AGE
                                                            (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     MATERIALS
01261  ARITHMETIC STEP BY STEP, KIT A, CALENDAR, LE  3       2.00  7- 5 TO  8- 1   6-10 TO  7- 2
01262  ARITHMETIC STEP BY STEP, KIT A, CALENDAR, LE  2       2.00  7- 6 TO  7- 8   7- 0 TO  7- 2
01456  TIME AND TELLING TIME                         4     **2.33  7- 4 TO  9- 2   6-10*TO* 7- 2
05831  FACT AND OPINION/YOUR OWN MIND - SIDE 2       1       2.00  9- 6 TO  9- 6   **************
05839  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  1       3.00  8- 2 TO  8- 2   6-11 TO  6-11
05840  HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  1     ***.**  9- 6 TO  9- 6   **************
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OBJECTIVE:  18132  READ TIME FROM A CLOCK IN QUARTER HOURS.

                          NO IMPLEMENTATION RECORD 1973-1974


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OBJECTIVE:  18133  READ TIME FROM A CLOCK WHEN THE MINUTE HAND
                   IS AT ANY NUMBER ON THE CLOCKFACE.
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OBJECTIVE: 18133 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01270	ARITHMETIC STEP BY STEP, KIT A, TIME	1	2.00	8- 6 TO 8- 6	8- 4 TO 8- 4
01456	TIME AND TELLING TIME	1	2.00	8- 6 TO 8- 6	8- 4 TO 8- 4
01470	CLOCK FACE STAMP	3	**1.50	8- 1 TO 8-11	7- 3 TO 8- 9
01510	JUDY PRIMARY CLOCK	6	**1.00	7-10 TO 9- 8	6- 4*TO* 8- 6
01511	JUDY MINI-CLOCKS	1	2.00	8- 6 TO 8- 6	8- 4 TO 8- 4
01575	TELL TIME QUIZMO	2	1.00	9- 6 TO 9- 6	**************
01576	ARITHMETIC QUIZMO - ADD-SUBTRACT	2	1.00	6-11 TO 9- 9	6- 6*TO* 6- 6

OBJECTIVE: 18134 WRITE TIME IN THE FORM 6:00, GIVEN THE TIME IN WORDS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18480 (C,D) READ TIME FROM A CLOCK TO THE NEAREST FRACTION OF AN HOUR AND TO THE NEAREST MINUTE

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01456	TIME AND TELLING TIME	1	1.00	10- 8 TO 10- 8	**************
01470	CLOCK FACE STAMP	1	1.00	10- 8 TO 10- 8	**************
01511	JUDY MINI-CLOCKS	1	1.00	10- 8 TO 10- 8	**************

OBJECTIVE: 18483 (A,B) READ TIME WRITTEN IN THE FORM 6:54 AND TELL HOW MANY MINUTES IT IS AFTER THE HOUR GIVEN OR BEFORE THE NEXT HOUR

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SUMMER TRAINEESHIP PROGRAM - CLARION STATE COLLEGE

OBJECTIVE: 85013 THE STUDENT WILL TELL TIME USING MINUTES BEFORE AND AFTER THE HOUR

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90116 GIVEN THE NUMERALS AND AN EMPTY CLOCK FACE, THE STUDENT WILL BE ABLE TO CORRECTLY SEQUENCE THE NUMBERS AROUND THE FACE OF THE CLOCK.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90285 GIVEN A CLOCK FACE WITH MOVABLE HANDS THE STUDENT WILL INDICATE THE POSITIONS OF THE HANDS FOR EACH HOUR, 12:00 TO 11:00

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
90411	CLOCK FACE	1	***.**	8- 5 TO 8- 5	**************

CONTENT AREA: F7-11 TEMPERATURE

SOURCE: HEATH

OBJECTIVE: 21209 MEASURE TEMPERATURES WITH A MERCURY OR ALCOHOL THERMOMETER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21291 MEASURE TEMPERATURES.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IDAHO EMR SKILLS ASSESSMENT

OBJECTIVE: 83129 THE STUDENT WILL READ BODY AND WEATHER THERMOMETERS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52716	READING VARIOUS THERMOMETERS	1	1.00	13-11 TO 13-11	**************

SOURCE: IOX

F7-11 (CONTINUED)

OBJECTIVE: 09593 GIVEN TWO OTHERWISE IDENTICAL THERMOMETERS (OR REPRESENTATIVES OF THERMOMETERS) WHICH SHOW DIFFERENT TEMPERATURES, THE CHILD WILL IDENTIFY WHICH SHOWS THE HOTTER TEMPERATURE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18411 (A-E) IDENTIFY PROPERTIES OF ADDITION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18491 (A,B) TELL HOW MANY DEGREES DIFFERENCE THERE ARE BETWEEN TWO TEMPERATURES WHEN ONE READING IS ABOVE ZERO AND ONE IS BELOW ZERO

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18492 (A,B) TELL WHAT TEMPERATURE IT WILL BE IF THE TEMPERATURE RISES OR FALLS A CERTAIN NUMBER OF DEGREES FROM A GIVEN TEMPERATURE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18493 (A,B) EXPRESS THE RELATION BETWEEN TWO TEMPERATURES WHEN BOTH READINGS ARE GIVEN IN FAHRENHEIT OR IN CENTIGRADE SCALE

NO IMPLEMENTATION RECORD 1973-1974

F7-11 (CONTINUED)

OBJECTIVE: 18494 (C,D) EXPRESS THE RELATION BETWEEN TWO TEMPERATURES WHEN ONE READING IS GIVEN IN THE FAHRENHEIT SCALE AND THE OTHER IN CENTIGRADE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18495 (A,B) USE THE FORMULA F = 9/5 + 32 TO TRANSLATE FROM DEGREES CENTIGRADE TO DEGREES FARENHEIT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18496 (C,D) USE THE FORMULA F = 9/5C + 32 TO TRANSLATE FROM DEGREES FARENHEIT TO DEGREES CENTIGRADE

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F7-12 TIME CONCEPTS

SOURCE: COMPET

OBJECTIVE: 06350 EXHIBITS FUNCTIONAL TIME SKILLS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06351 DIFFERENTIATES BETWEEN DAY AND NIGHT

NO IMPLEMENTATION RECORD 1973-1974

F7-12 (CONTINUED)

OBJECTIVE: 06352 NAMES DAYS OF WEEK IN ORDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06353 NAMES SEASONS IN ORDER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 06354 READS CALENDAR DATE CORRECTLY

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IOX

OBJECTIVE: 09541 TIME: GIVEN TIME-RELATED SITUATIONS OR TIME UNITS (SUCH AS MONTHS, DAYS, ETC.), THE CHILD WILL BE ABLE TO MATCH THE SITUATION TO ITS APPROPRIATE TIME, ORDER TIME UNITS CHRONOLOGICALLY, AND CORRECTLY READ THE HOUR FROM THE FACE OF A CLOCK.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09542 HAVING EXPERIENCED TWO DISTINCT TIME PERIODS, ONE OF WHICH IS TWICE AS LONG AS THE OTHER, THE CHILD WILL IDENTIFY THE LONGER TIME PERIOD.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09543 GIVEN INSTRUCTIONS TO STATE THE CLASSROOM DAILY ROUTINE (INCLUDING PERIODS OF PHYSICAL ACTIVITY AND RELAXATION), THE CHILD CAN ENUMERATE DAILY ACTIVITIES IN CHRONOLOGICAL ORDER.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09544 GIVEN DIFFERENT TIMES OF THE DAY, THE CHILD CAN LABEL THE PERIOD AS MORNING, NOON, AFTERNOON, EVENING, OR NIGHT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09546 GIVEN INSTRUCTIONS TO SAY THE DAYS OF THE WEEK, THE CHILD CAN DO SO IN ORDER, STARTING WITH ANY DAY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01281	ARITHMETIC STEP BY STEP, KIT A, MEASURES, LE	1	1.00	7- 2 TO 7- 2	6- 2 TO 6- 2
01660	ARITHMETIC HANDY PACK	1	1.00	7- 2 TO 7- 2	6- 2 TO 6- 2

OBJECTIVE: 09547 GIVEN INSTRUCTIONS TO SAY THE MONTHS OF THE YEAR, THE CHILD CAN DO SO IN ORDER, STARTING WITH ANY MONTH.

OBJECTIVE: 09547 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01281	ARITHMETIC STEP BY STEP, KIT A, MEASURES, LE	1	1.00	7- 2 TO 7- 2	6- 2 TO 6- 2
01480	CALENDAR CHART	1	1.00	7- 2 TO 7- 2	6- 2 TO 6- 2

OBJECTIVE: 09548 GIVEN SYMBOLS, CHARACTERISTICS AND PRACTICES RELATED TO A SPECIFIC TIME OF THE YEAR, THE CHILD CAN SELECT THE TIME OF YEAR THAT IS IMPLIED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09595 GIVEN PICTURES WHICH DEPICT THE FOUR SEASONS, THE CHILD CAN GIVE THE NAME OF THE SEASON APPROPRIATE TO THE PICTURE.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18135 TELL HOW MANY SECONDS THERE ARE IN A GIVEN NUMBER OF MINUTES AND HOW MANY MINUTES THERE ARE IN A GIVEN NUMBER OF HOURS, GIVEN THE NUMBER OF SECONDS IN ONE MINUTE AND THE NUMBER OF MINUTES IN ONE HOUR.

NO IMPLEMENTATION RECORD 1973-1974

F7-12 (CONTINUED)

OBJECTIVE: 18136 WORK WORD PROBLEMS INVOLVING ADDING AND SUBTRACTING WITH TIME MEASUREMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18137 READ DATES FROM A CALENDAR.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18479 (A,B) TELL HOW MANY MINUTES THE MINUTE HAND TAKES TO GO AROUND THE CLOCKFACE ONCE AND HOW MANY HOURS THE HOUR HAND TAKES TO GO AROUND THE CLOCKFACE ONCE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18481 (A-C) TELL THE NUMBER OF SECONDS PER MINUTE, THE NUMBER OF MINUTES PER HOUR, AND THE NUMBER OF HOURS PER DAY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18482 (D,C) DETERMINE THE NUMBER OF SECONDS PER HOUR AND MINUTES PER DAY

NO IMPLEMENTATION RECORD 1973-1974

F7-12 (CONTINUED)

OBJECTIVE: 18484 (C,D) TELL HOW MANY DAYS ARE CONTAINED IN N HOURS (N NOT EQUAL TO 24) AND THE NUMBER OF MINUTES CONTAINED IN A GIVEN FRACTION OF AN HOUR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18485 (E) TELL WHAT UNIT OF TIME MULTIPLIED BY 1/360 IS EQUAL TO 10 SECONDS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18486 (F) TELL WHAT UNIT OF TIME IS EQUAL TO 168 HOURS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18487 (A,B) ADD AND SUBTRACT WITH TIME MEASUREMENTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18488 (A) TELL WHAT DATE A GIVEN DAY OF THE WEEK WILL FALL ON, GIVEN ITS DATE IN THE PRECEDING WEEK AND SHOWN A CALENDAR

NO IMPLEMENTATION RECORD 1973-1974

F7-12 (CONTINUED)

OBJECTIVE: 18489 (B-D) TELL THE NUMBER OF DAYS IN A MONTH, THE NUMBER OF WEEKS IN A MONTH, AND REMAINING NUMBER OF DAYS WHEN SHOWN A CALENDAR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18490 (A,B) READ AND WRITE DATES IN THE FORM 2-7-73

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90287 GIVEN THE SEASONS, WINTER, SUMMER, SPRING, AND FALL THE STUDENT IS ABLE TO LIST THE MAJOR ACTIVITIES WHICH OCCUR DURING EACH SEASON.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90288 GIVEN THE SEASONS, WINTER, SUMMER, SPRING AND FALL THE STUDENT WILL VERBALLY DISCUSS THE NATURAL CHANGES WHICH OCCUR IN HIS/HER SURROUNDINGS DURING EACH SEASSON.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90289 GIVEN THE SEASONS, WINTER, SUMMER, SPRING AND FALL THE STUDENT WILL VERBALLY LIST THE MONTHS IN EACH SEASON.

NO IMPLEMENTATION RECORD 1973-1974

F7-12 (CONTINUED)

OBJECTIVE: 90290 GIVEN THE SEASONS WINTER, SUMMER, SPRING AND FALL THE STUDENT WILL VERBALLY DESCRIBE THE WEATHER TYPICAL OF EACH SEASON.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90291 WHEN VERBALLY ASKED TO NAME THE SEASONS OF THE YEAR THE STUDENT WILL SAY, WINTER, SPRING, SUMMER AND FALL

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F8-01 ADVANCED MATHEMATICS

SOURCE: HEATH

OBJECTIVE: 21429 ABBREVIATE SOME EXPRESSIONS USING EXPONENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21430 EVALUATE SOME NUMERICAL EXPRESSIONS INVOLVING EXPONENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21515 EVALUATE SIMPLE ALGEBRAIC EXPRESSIONS FOR SOME REPLACEMENTS OF THE PLACE HOLDERS.

NO IMPLEMENTATION RECORD 1973-1974

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OBJECTIVE: 21518 EVALUATE SIMPLE NUMERICAL EXPRESSIONS INVOLVING EXPONENTS.

NC IMPLEMENTATION RECORD 1973-1974

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90438 THE STUDENT WILL SOLVE ALGEBRAIC EQUATIONS BY TRANSFORMING IT INTO A SIMPLER EQUIVALENT EQUATION.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07702	MODERN ALGEBRA: STRUCTURE AND METHOD - COURS	1	2.00	15- 5 TO 15- 5	13- 0 TO 13- 0

OBJECTIVE: 90479 THE STUDENT WILL BE ABLE TO DEFINE TERMS USED IN ALGEBRA AND USE SYMBOLS AND DEFINITIONS TO RECORD INFORMATION AND SOLVE EQUATIONS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
07702	MODERN ALGEBRA: STRUCTURE AND METHOD - COURS	1	1.00	16- 1 TO 16- 1	13- 2 TO 13- 2

OBJECTIVE: 90486 THE STUDENT WILL BE ABLE TO FOLLOW DIRECTIONS EXPRESSED IN ALGEBRAIC TERMS; SOLVE EQUATIONS AND/OR EXPRESS SAID EQUATIONS WHEN ASKED AND LABEL THE EXPRESSION WITH THE CORRECT TERM

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
07702	MODERN ALGEBRA: STRUCTURE AND METHOD - COURS	1	3.00	16- 1 TO 16- 1	13- 2 TO 13- 2

CONTENT AREA: F8-02 CHARTS, GRAPHS, TABLES

SOURCE: HEATH

OBJECTIVE: 21147 READ SIMPLE BAR GRAPHS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21179 RELATE ADDITION AND SUBTRACTION BY WRITING TWO ADDITION EQUATIONS AND TWO SUBTRACTION EQUATIONS FOR A SET OF TWO ADDENDS AND A SUM.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
05340	NUMERAL ASSORTMENT (LARGE)	1	***.**	8- 4 TO 8- 4	7- 5 TO 7- 5
05839	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	8-10 TO 8-10	7-10 TO 7-10

OBJECTIVE: 21330 READ DATA FROM A LINE GRAPH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21383 COMPUTE INPUT OR OUTPUT NUMBERS FOR SOME SIMPLE FUNCTIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21389 GRAPH ORDERED PAIRS OF WHOLE NUMBERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21390 GIVE THE COORDINATES OF SOME POINTS ON A GRAPH.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21447 INTERPRET SOME PICTOGRAMS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: HEATHH

OBJECTIVE: 21387 FIND RULES RELATING INPUT AND OUTPUT NUMBERS FOR SOME SIMPLE FUNCTIONS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IDAHO EMR SKILLS ASSESSMENT

OBJECTIVE: 83140 THE STUDENT CAN READ AND INTERPRET ROAD MAPS

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52729	USING ROADMAP	1	1.00	13-11 TO 13-11	**************

SOURCE: SRA

OBJECTIVE: 18439 READ AND INTERPRET FRACTIONAL PARTS OF A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18440 ADD INFORMATION TO A GRAPH AND SOLVE A PROBLEM BY USING INFORMATION GIVEN ON A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18441 (A) USE INFORMATION GIVEN ON A GRAPH TO COMPUTE THE NUMBER REPRESENTED BY A FRACTIONAL PART

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18442 (B) DETERMINE WHETHER OR NOT CERTAIN INFORMATION IS GIVEN ON A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18443 (A,B) READ DATA FROM A GRAPH

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01393	ARITHMETIC STEP BY STEP, KIT B, GRAPHS, DECI	2	1.00	11- 1 TO 11- 3	8- 1 TO 12- 5
01570	CUBICAL COUNTING BLOCKS	1	1.00	10- 4 TO 10- 4	7- 3 TO 7- 3

OBJECTIVE: 18444 (C) RECOGNIZE TRENDS ON A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18445 PLOT INFORMATION CORRECTLY ON A GRAPH IN ORDER TO GIVE THE INFORMATION ASKED

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01393	ARITHMETIC STEP BY STEP, KIT B, GRAPHS, DECI	2	1.00	11- 1 TO 11- 3	8- 1 TO 12- 5

F8-02 (CONTINUED)

OBJECTIVE: 18446 TELL WHAT INFORMATION THE SCALES ON A GRAPH GIVE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18447 READ AND INTERPRET DATA FROM A DIFFERENT TYPE OF GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18448 SOLVE A PROBLEM, USING INFORMATION GIVEN ON A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18449 DETERMINE HOW ADDITIONAL INFORMATION COULD BE ADDED TO A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18450 (A) IDENTIFY A TYPE OF GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18451 (B) DETERMINE THE NUMBER OF SCALES A GRAPH HAS

NO IMPLEMENTATION RECORD 1973-1974

F8-02 (CONTINUED)

OBJECTIVE: 18452 DETERMINE THE INFORMATION GIVEN ON A PARTICULAR GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18453 (A) READ THE LEGEND OF A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18454 (B) USE THE VALUE OF A SYMBOL TO SOLVE A PROBLEM INVOLVING INFORMATION GIVEN ON A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18455 ADD DATA TO A GRAPH AFTER DETERMINING THE NUMBER OF SYMBOLS NEEDED

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18456 (A-D) SELECT AN APPROPRIATE TYPE OF GRAPH TO SHOW CERTAIN GIVEN INFORMATION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18554 (A-D) WRITE ORDERED PAIRS TO DESCRIBE FOUR DIFFERENT POINTS ON A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18555 (A,B) PLOT POINTS ON A GRAPH, GIVEN THEIR COORDINATES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18556 (A,B) NAME THE AXES ALONG WHICH ONE COUNTS TO LOCATE THE NUMBERS OF AN ORDERED PAIR

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18557 PLOT POINTS FOR ORDERED PAIRS ON A GRAPH AND DRAW LINES CONNECTING THE PLOTTED POINTS TO IDENTIFY A FIGURE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18558 (A-D) WRITE THE ORDERED PAIRS FOR POINTS PLOTTED ON A GRAPH

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18559 (E) NAME THE POINT AT WHICH AXES CROSS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18560 (F) TELL THE LABEL THAT IS ALWAYS ASSIGNED TO THIS POINT

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18561 (A-E) USE A FUNCTION TO COMPLETE A TABLE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18562 (A,B) USE A TABLE TO WRITE A FUNCTION

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F8-03 EQUATIONS/NUMBER SENTENCES

SOURCE: HEATH

OBJECTIVE: 21157 WRITE TWO ADDITION EQUATIONS AND TWO SUBTRACTION EQUATIONS FOR TWO ADDENDS AND A SUM.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
90297	NUMBER FAMILY DITTO	1	2.00	9- 0 TO 9- 0	5-11 TO 5-11

OBJECTIVE: 21178 DRAW NUMBER-LINE PICTURES FOR ADDITION AND SUBTRACTION EQUATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21181 RELATE ADDITION AND SUBTRACTION BY WRITING TWO ADDITION AND TWO SUBTRACTION EQUATIONS USING THE NUMBERS IN A SET OF TWO ADDENDS AND A SUM.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21223 WRITE A MULTIPLICATION EQUATION FOR A GIVEN RECTANGULAR ARRAY OF COUNTERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21258 WRITE A MULTIPLICATION EQUATION FOR A SITUATION INVOLVING SEVERAL SETS WITH THE SAME NUMBER OF ELEMENTS IN EACH SET.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21259 WRITE TWO DIVISION EQUATIONS FOR A SITUATION INVOLVING SEVERAL SETS WITH THE SAME NUMBER OF ELEMENTS IN EACH SET.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01489	FLASH CARDS - DIVISION	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8

OBJECTIVE: 21259 (CONTINUED)

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05849 HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL  5      1.60  9- 2 TO 11- 6   7- 1 TO  8- 5
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OBJECTIVE: 21385 SOLVE SIMPLE ONE-STEP EQUATIONS THAT HAVE WHOLE NUMBER SOLUTIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21388 WRITE EQUATIONS FOR SOME ONE-STEP WORD PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21516 SOLVE EQUATIONS INVOLVING ONE OPERATION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21517 SOLVE SOME EQUATIONS INVOLVING TWO OPERATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21521 WRITE EQUATIONS FOR SOME PRACTICAL PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

FB-03 (CONTINUED)

SOURCE: SRA

OBJECTIVE: 18073 WRITE ADDITION SENTENCES TO DESCRIBE THE JOINING OF SETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18074 WRITE ADDITION SENTENCES TO DESCRIBE ADDITION ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18075 COMPLETE ADDITION SENTENCES INVOLVING THE COMMUTATIVE PROPERTY OF ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18076 COMPLETE ADDITION SENTENCES INVOLVING THE ASSOCIATIVE PROPERTY OF ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18077 COMPLETE ADDITION SENTENCES INVOLVING ZERO.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18078 COMPLETE ADDITION SENTENCES TO DESCRIBE ADDITION WITH SUM OR ADDEND GREATER THAN 10.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18079 WRITE SUBTRACTION SENTENCES TO DESCRIBE SUBTRACTION WITH SETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18080 WRITE SUBTRACTION SENTENCES TO DESCRIBE SUBTRACTION ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18081 COMPLETE ADDITION AND SUBTRACTION SENTENCES INVOLVING THE INVERSE RELATION BETWEEN ADDITION AND SUBTRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18082 COMPLETE SUBTRACTION SENTENCES INVOLVING ZERO.

NO IMPLEMENTATION RECORD 1973-1974

FB-03 (CONTINUED)

OBJECTIVE: 18084 WRITE MULTIPLICATION SENTENCES TO DESCRIBE MULTIPLICATION ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18085 WRITE MULTIPLICATION SENTENCES TO DESCRIBE REPEATED ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18086 COMPLETE MULTIPLICATION SENTENCES INVOLVING THE COMMUTATIVE PROPERTY OF MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18087 COMPLETE MULTIPLICATION SENTENCES INVOLVING THE ASSOCIATIVE PROPERTY OF MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18088 COMPLETE MULTIPLICATION SENTENCES INVOLVING THE DISTRIBUTIVE PROPERTY OF MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18089 COMPLETE MULTIPLICATION SENTENCES INVOLVING ZERO AND ONE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18090 WRITE DIVISION SENTENCES TO DESCRIBE DIVISION OF SETS INTO EQUIVALENT SUBSETS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18091 WRITE DIVISION SENTENCES TO DESCRIBE DIVISION ON THE NUMBER LINE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18092 WRITE DIVISION SENTENCES TO DESCRIBE REPEATED SUBTRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18093 COMPLETE DIVISION SENTENCES INVOLVING THE INVERSE RELATION BETWEEN DIVISION AND MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

F8-03 (CONTINUED)

OBJECTIVE: 18094 USE ZERO AND ONE IN DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18095 COMPLETE ADDITION AND SUBTRACTION SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18096 COMPLETE ADDITION SENTENCES INVOLVING USE OF PARENTHESES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18097 DETERMINE WHETHER TO USE LESS THAN, GREATER THAN, OR = TO COMPLETE ADDITION AND SUBTRACTION SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18098 COMPLETE MULTIPLICATION OR DIVISION SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18099 DETERMINE WHETHER TO USE + OR - TO COMPLETE NUMBER SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

F8-03 (CONTINUED)

OBJECTIVE: 18100 DETERMINE WHETHER TO USE MULTIPLY OR DIVIDE SIGNS TO COMPLETE NUMBER SENTENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18101 TELL WHETHER A NUMBER SENTENCE IS TRUE OR FALSE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18102 WRITE ADDITION SENTENCES AND SUBTRACTION SENTENCES TO HELP SOLVE PICTURE PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18103 WRITE ADDITION SENTENCES AND SUBTRACTION SENTENCES TO HELP SOLVE STORY PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18397 (A-D) IDENTIFY OPEN AND CLOSED NUMBER SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18398 (A-D) REPLACE BLOCK IN A NUMBER SENTENCE WITH A NUMERAL THAT MAKES THE OPEN NUMBER SENTENCE TRUE

NO IMPLEMENTATION RECORD 1973-1974

F8-03 (CONTINUED)

OBJECTIVE: 18399 (A-F) USE A GIVEN REPLACEMENT SET TO FIND SOLUTION SETS FOR OPEN SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18400 (A-F) TELL WHETHER A GIVEN CLOSED SENTENCE IS TRUE OR FALSE BY INTERPRETING SYMBOLS AND COMPUTING

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18401 (A-D) WRITE ONE RELATED SUBTRACTION NUMBER SENTENCE FOR A GIVEN ADDITION SENTENCE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18402 (A-D) IDENTIFY THE UNKNOWN IN AN EQUATION AS FACTOR, PRODUCT, ADDEND, OR SUM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18403 (A-D) SOLVE OPEN SENTENCES OF THE KIND GIVEN IN PROBLEM 7; I.E., IDENTIFY THE UNKNOWN AS OF FACTOR, PRODUCT, ADDEND OR SUM

NO IMPLEMENTATION RECORD 1973-1974

F8-03 (CONTINUED)

OBJECTIVE: 18404 WRITE A TRUE CLOSED NUMBER SENTENCE AND A FALSE CLOSED NUMBER SENTENCE BY REPLACING THE BLOCK IN THE OPEN SENTENCE 4 + 7 = WITH A CORRECT AND AN INCORRECT SUM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18405 (A-F) INSERT LESS THAN, GREATER THAN, OR = SYMBOLS TO MAKE TRUE NUMBER SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18412 (A-D) IDENTIFY A NUMBER SENTENCE THAT ILLUSTRATES THE ASSOCIATIVE PROPERTY OF ADDITION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18413 (A-D) WRITE TWO MULTIPLICATION EQUATIONS FOR A GIVEN ARRAY

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18420 (A-F) USE PROPERTIES OF OPERATIONS TO COMPLETE NUMBER SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

F8-03 (CONTINUED)

SOURCE: SRA.

OBJECTIVE: 18083 WRITE MULTIPLICATION SENTENCES TO DESCRIBE THE JOINING OF EQUIVALENT SETS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F8-04 ESTIMATION/MATH

SOURCE: HEATH

OBJECTIVE: 21246 ESTIMATE QUITE ACCURATELY SOME SHORT LENGTHS IN INCHES AND IN CENTIMETERS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21289 APPROXIMATE AREA MEASURES USING ARBITRARY UNITS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21290 APPROXIMATE VOLUME MEASURES USING ARBITRARY UNITS.

NO IMPLEMENTATION RECORD 1973-1974

F8-04 (CONTINUED)

OBJECTIVE: 21360 ESTIMATE WITH REASONABLE ACCURACY SOME SUMS AND DIFFERENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21361 ESTIMATE WITH REASONABLE ACCURACY SOME PRODUCTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21362 ESTIMATE WITH REASONABLE ACCURACY SOME QUOTIENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21363 ESTIMATE ANSWERS IN SOME REAL PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21403 ESTIMATE WITH REASONABLE ACCURACY SUMS AND DIFFERENCES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21409 ESTIMATE TO A REASONABLE DEGREE OF ACCURACY SOME PRODUCTS.

NO IMPLEMENTATION RECORD 1973-1974

F8-04 (CONTINUED)

OBJECTIVE: 21421 ESTIMATE SOME QUOTIENTS TO A REASONABLE DEGREE OF ACCURACY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21520 USE ROUNDING IN ESTIMATING SOME SUMS, DIFFERENCES, AND PRODUCTS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F8-06 MIXED/INVERSE OPERATIONS

SOURCE: SRA

OBJECTIVE: 18081 COMPLETE ADDITION AND SUBTRACTION SENTENCES INVOLVING THE INVERSE RELATION BETWEEN ADDITION AND SUBTRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18093 COMPLETE DIVISION SENTENCES INVOLVING THE INVERSE RELATION BETWEEN DIVISION AND MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18410 (A-D) USE OPPOSITE OPERATIONS TO FIND THE MISSING NUMBERS IN EQUATIONS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18418 (A-F) MATCH EACH OF FIVE MULTIPLICATION PROPERTIES TO AN ILLUSTRATIVE EQUATION

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
MATERIALS					
01341	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	2.00	10- 5 TO 10- 5	9- 6 TO 9- 6
01342	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	1.00	10- 5 TO 10- 5	9- 6 TO 9- 6

OBJECTIVE: 18420 (A-F) USE PROPERTIES OF OPERATIONS TO COMPLETE NUMBER SENTENCES

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F8-07 MODERN MATHEMATICS

SOURCE: HEATH

OBJECTIVE: 21432 EVALUATE SOME SUMS AND DIFFERENCES USING CLOCK ARITHMETIC (VARIOUS MODULI).

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21462 FIND FIRST OR SECOND NUMBERS OF ORDERED PAIRS BELONGING TO A GIVEN FUNCTION.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F8-08 PRACTICAL MATHEMATICS

SOURCE: HEATH

OBJECTIVE: 21144 GIVE THE STUDENT A SIMPLE ADDITION EQUATION FOR WHICH HE WILL A STORY FOR THE EQUATION. REPEAT FOR A SUBTRACTION EQUATION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21196 SOLVE SIMPLE SITUATION PROBLEMS BY ADDITION OR SUBTRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21204 SOLVE SOME SIMPLE PRACTICAL PROBLEMS USING SUBTRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21249 SOLVE SIMPLE PRACTICAL PROBLEMS THAT INVOLVE ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21255 SOLVE SIMPLE PRACTICAL PROBLEMS THAT INVOLVE SUBTRACTION.

NO IMPLEMENTATION RECORD 1973-1974

F8-08 (CONTINUED)

OBJECTIVE: 21315 APPLY ADDITION AND SUBTRACTION TO PRACTICAL SITUATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21402 APPLY ADDITION AND SUBTRACTION TO PRACTICAL SITUATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21408 SOLVE SOME APPLICATION PROBLEMS BY MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: IDAHO EMR SKILLS ASSESSMENT

OBJECTIVE: 83131 THE STUDENT WILL BE ABLE TO KEEP TRACK OF CHECKS

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F8-09 PROBLEM SOLVING

SOURCE: HEATH

OBJECTIVE: 21225 SOLVE SIMPLE SITUATION PROBLEMS BY MULTIPLICATION.

NO IMPLEMENTATION RECORD 1973-1974

FB-09 (CONTINUED)

OBJECTIVE: 21237 DETERMINE WHEN TO ADD OR SUBTRACT IN SIMPLE SITUATIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21249 SOLVE SIMPLE PRACTICAL PROBLEMS THAT INVOLVE ADDITION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21255 SOLVE SIMPLE PRACTICAL PROBLEMS THAT INVOLVE SUBTRACTION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21261 USE MULTIPLICATION OR DIVISION TO SOLVE SIMPLE PRACTICAL PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21277 SOLVE SOME PRACTICAL PROBLEMS INVOLVING FRACTIONS AS OPERATORS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21282 SOLVE SOME PRACTICAL PROBLEMS USING MULTIPLICATION OR DIVISION.

OBJECTIVE: 21282 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	4	1.75	8-10 TO 11- 4	6-10 TO 10-10

OBJECTIVE: 21294 SOLVE SOME SIMPLE PRACTICAL PROBLEMS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05849	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	2.00	11- 9 TO 11- 9	6- 8 TO 6- 8

OBJECTIVE: 21329 DETERMINE IF A SIMPLE PRACTICAL PROBLEM CAN BE SOLVED BY MULTIPLICATION OR CAN BE SOLVED BY DIVISION.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
01341	ARITHMETIC STEP BY STEP, KIT B, MULTIPLICATI	1	1.00	9- 2 TO 9- 2	7- 8 TO 7- 8
06088	ELEMENTARY SCHOOL MATHEMATICS, BOOK 2, DUPLI	1	2.00	9- 2 TO 9- 2	7- 8 TO 7- 8

OBJECTIVE: 21335 SOLVE SOME PRACTICAL PROBLEMS INVOLVING FRACTIONS AS OPERATORS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21343 USE MULTIPLICATION TO SOLVE SOME PRACTICAL PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21351 SOLVE SIMPLE PRACTICAL PROBLEMS THAT REQUIRE DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21377 SOLVE SOME PRACTICAL PROBLEMS BY USING LONG DIVISION.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
05854	HEATH ELEMENTARY MATHEMATICS PROGRAM - LEVEL	1	1.00	10- 8 TO 10- 8	7- 6 TO 7- 6

OBJECTIVE: 21384 SELECT FROM AMONG A COLLECTION OF SIMPLE PROBLEM SITUATIONS THOSE THAT INVOLVE ADDITION AND SUBTRACTION AND THOSE THAT INVOLVE MULTIPLICATION AND DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

F8-09 (CONTINUED)

OBJECTIVE: 21388 WRITE EQUATIONS FOR SOME ONE-STEP WORD PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21419 SOLVE SOME PRACTICAL PROBLEMS BY DIVISION.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21461 DETERMINE A METHOD FOR SOLVING ANY SIMPLE ONE-STEP SITUATION PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21540 USE INTEGERS TO MEASURE TRIPS ON A ROAD.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18102 WRITE ADDITION SENTENCES AND SUBTRACTION SENTENCES TO HELP SOLVE PICTURE PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18103 WRITE ADDITION SENTENCES AND SUBTRACTION SENTENCES TO HELP SOLVE STORY PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18104 SOLVE STORY PROBLEMS INVOLVING TWO STEPS.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03373	MOTT CONSUMER BUYING - BASIC NUMBERS AND MON	1	2.00	12-11 TO 12-11	11-11 TO 11-11
03923	ELEMENTARY SCHOOL MATHEMATICS, BOOK 3	1	2.00	12-11 TO 12-11	11-11 TO 11-11

OBJECTIVE: 18105 ROUND NUMBERS TO THE NEAREST TEN OR HUNDRED AND ESTIMATE ANSWERS TO STORY PROBLEMS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18130 WORK PROBLEMS INCLUDING ADDING PRICES OF TWO ITEMS FINDING THE DIFFERENCE IN PRICE BETWEEN TWO ITEMS, FINDING THE PRICE OF SEVERAL OF ONE TYPE OF ITEM, AND DETERMINING CHANGE, GIVEN A PICTURE OF A GROUP OF ITEMS WITH PRICES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18466 (A,B) DETERMINE THE PROBABILITY OF A CHANCE OCCURRENCE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18467 (A-C) SOLVE A PROBABILITY PROBLEM INVOLVING DIFFERENT PROPORTIONS OF BLUE AND RED BALLS IN THREE BOXES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18468 (A,B) GIVE A FRACTIONAL NUMBER EXPRESSING A PROBABILITY

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: G2-00 GEOGRAPHY

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90158 THE STUDENT WILL BE ABLE TO ANSWER A GIVEN SET OF QUESTIONS ABOUT CENTRAL AMERICA

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06926	EXPLORING REGIONS OF LATIN AMERICA AND CANAD	3	2.00	10-11 TO 11- 9	**************
98021	WORKSHEETS AND TAPE ADAPTATION I	3	**1.00	10-11 TO 11- 9	**************
	TEST/TASK				
00020	CENTRAL AMERICA	3	**1.00	10-11 TO 11- 9	** [illegible] *********

OBJECTIVE: 90163 THE STUDENT WILL BE ABLE TO ANSWER A GIVEN SET OF QUESTIONS ABOUT MEXICO WITH 80% ACCURACY.

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06922	FAMILY OF MEXICO, FILMSTRIP	2	2.00	10-11 TO 11-11	**************
06923	MEXICO, OUR SOUTHERN NEIGHBOR, FILMSTRIP	2	2.00	10-11 TO 11-11	**************
06926	EXPLORING REGIONS OF LATIN AMERICA AND CANAD	2	2.00	10-11 TO 11-11	**************
98021	WORKSHEETS AND TAPE ADAPTATION I	2	1.00	10-11 TO 11-11	**************

F8-09 (CONTINUED)

OBJECTIVE: 18136 WORK WORD PROBLEMS INVOLVING ADDING AND SUBTRACTING WITH TIME MEASUREMENTS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18421 SOLVE A SIMPLE ONE-STEP WORD PROBLEM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18422 (A) ROUND OFF NUMBERS TO ESTIMATE AN ANSWER TO A PROBLEM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18423 (B,C) SOLVE A WORD PROBLEM AND TELL WHETHER AN ESTIMATE IS GREATER OR LESS THAN THE ACCURATE ANSWER

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18424 (A,B) WRITE ONE NUMBER SENTENCE THAT CAN BE USED TO SOLVE A WORD PROBLEM AND THEN SOLVE THE PROBLEM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18425 (A-E) TELL WHETHER THERE IS ENOUGH, NOT ENOUGH, OR MORE THAN ENOUGH INFORMATION GIVEN TO SOLVE A WORD PROBLEM

NO IMPLEMENTATION RECORD 1973-1974

F8-09 (CONTINUED)

OBJECTIVE: 18426 (A,B) SOLVE A WORD PROBLEM THAT INVOLVES TWO SEPARATE STEPS

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: RURAL UNIT

OBJECTIVE: 90328 GIVEN 10 ADDITION WORD PROBLEMS WITH SUMS LESS THAN 10 - STUDENT WILL COMPUTE TO FIND SUM USING CONCRETE OBJECTS.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: F8-11 STATISTICS, PROBABILITY

SOURCE: HEATH

OBJECTIVE: 21383 COMPUTE INPUT OR OUTPUT NUMBERS FOR SOME SIMPLE FUNCTIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21422 COMPUTE SOME AVERAGES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 21477 COMPUTE SOME AVERAGES.

NO IMPLEMENTATION RECORD 1973-1974

FB-11 (CONTINUED)

OBJECTIVE: 21539 STATE THE PROBABILITIES OF SOME VERY SIMPLE EVENTS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: HEATHH

OBJECTIVE: 21387 FIND RULES RELATING INPUT AND OUTPUT NUMBERS FOR SOME SIMPLE FUNCTIONS.

NO IMPLEMENTATION RECORD 1973-1974

SOURCE: SRA

OBJECTIVE: 18457 (A,B) IDENTIFY THE AVERAGE OF THREE NUMBERS AS A NUMBER WHICH, WHEN SUBSTITUTED FOR EACH OF THE ADDENDS, GIVES THE SAME SUM

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18458 (A) FIND THE MEDIAN OF A GIVEN SET OF NUMBERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18459 (B) FIND THE AVERAGE OF A GIVEN SET OF NUMBERS

NO IMPLEMENTATION RECORD 1973-1974

F8-11 (CONTINUED)

OBJECTIVE: 18460 (A,B) TELL THE MODE OF A GIVEN SET OF NUMBERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18461 (A) DETERMINE THE AVERAGE OF A SET OF NUMBERS INVOLVING DOLLARS AND CENTS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18462 (B) DETERMINE THE RANGE OF DATA BY COMPUTATION

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18463 (A,B) FIND THE RANGE, MEDIAN, AND MEAN FOR TWO DIFFERENT SETS OF NUMBERS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18464 DETERMINE WHAT STATISTIC IS FOUND BY USING TWO GIVEN EQUATIONS

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 18465 (A-C) READ INFORMATION FROM A VERTICAL BAR GRAPH TO DETERMINE MEAN, MEDIAN, AND MODE

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90307 THE STUDENT WILL BE ABLE TO ANSWER A GIVEN SET OF QUESTIONS ABOUT PERU, BOLIVIA, AND CHILI

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06926	EXPLORING REGIONS OF LATIN AMERICA AND CANAD	3	2.00	10-11 TO 11- 9	**************
07637	HIGHLAND PEOPLE OF BOLIVIA	3	1.00	10-11 TO 11- 9	**************
07638	CHILE - THE LAND	3	1.67	10-11 TO 11- 9	**************
98023	SOUTH AMERICAN UNIT	2	1.00	11- 3 TO 11-11	**************

OBJECTIVE: 90308 THE STUDENT WILL BE ABLE TO ANSWER A GIVEN SET OF QUESTIONS ABOUT ARGENTINA, URUGUAY AND PARAGUAY

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
06906	VOWEL SOUNDS, SOUNDS OF I, TAPE 3, SIDE 2 AN	1	1.00	11- 0 TO 11- 0	**************
06926	EXPLORING REGIONS OF LATIN AMERICA AND CANAD	2	1.00	11- 3 TO 11-11	**************
98024	UNIT OF STUDY ON ARGENTINA, URUGUAY, PARAGUA	3	1.00	10-11 TO 11- 9	**************

OBJECTIVE: 90309 THE STUDENT WILL BE ABLE TO ANSWER A GIVEN SET OF QUESTIONS ABOUT BRAZIL AND THE GUIANAS

NO IMPLEMENTATION RECORD 1973-1974

800

799

OBJECTIVE: 90310 THE STUDENT WILL BE ABLE TO ANSWER A GIVEN SET OF QUESTIONS ABOUT CANADA'S PAST

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90311 THE STUDENT WILL BE ABLE TO ANSWER A GIVEN SET OF QUESTIONS ABOUT THE ATLANTIC PROVINCES

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90312 THE STUDENT WILL BE ABLE TO ANSWER A GIVEN SET OF QUESTIONS ABOUT QUEBEC AND ONTARIO

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 90752 THE STUDENT WILL KNOW FACTS RELATED TO NEW ENGLAND

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52855	KNOWING FACTS RELATING TO NEW ENGLAND	1	3.00	14- 8 TO 14- 8	8-10 TO 8-10

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CONTENT AREA:  G3-00 HISTORY

SOURCE:  MIDDLE URBAN UNIT



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OBJECTIVE:  90234  THE STUDENT WILL BE ABLE TO COMPLETE A SUMMARY OF EVENTS RELATING
                   TO THE FRENCH AND INDIAN WAR

RESOURCE                                          NUMBER     EFF    CHRONOLOGICAL      MENTAL
NUMBER                    TITLES                  OF USES   RATING       AGE             AGE
                                                            (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     MATERIALS
07013  THE STORY OF AMERICA                          1       2.00 15- 5 TO 15- 5  13- 0 TO 13- 0
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OBJECTIVE:  90482  THE STUDENT WILL BE ABLE TO RECOGNIZE AND RECALL FACTS RELATED TO
                   GREEK CITY - STATES.

RESOURCE                                          NUMBER     EFF    CHRONOLOGICAL      MENTAL
NUMBER                    TITLES                  OF USES   RATING       AGE             AGE
                                                            (1=HI)  -1SD TO +1SD   -1SD TO +1SD
     MATERIALS
03978  DISCOVERING OUR WORLD'S HISTORY               1       2.00 12- 2 TO 12- 2  12- 2 TO 12- 2
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OBJECTIVE:  90747  THE STUDENT WILL DISPLAY A KNOWLEDGE OF FACTS RELATING TO THE
                   SETTLEMENT OF THE GREAT PLAINS STATES
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OBJECTIVE: 90747 (CONTINUED)

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	METHODS				
52850	RELATING FACTS ABOUT THE GREAT PLAINS STATES	1	2.00	15- 5 TO 15- 5	13- 0 TO 13- 0

OBJECTIVE: 90755 THE STUDENT WILL BE ABLE TO RECALL AND RECOGNIZE FACTS RELATED TO THE GOLDEN AGE OF GREECE

RESOURCE NUMBER	TITLES	NUMBER OF USES	EFF RATING (1=HI)	CHRONOLOGICAL AGE -1SD TO +1SD	MENTAL AGE -1SD TO +1SD
	MATERIALS				
03978	DISCOVERING OUR WORLD'S HISTORY	1	1.00	12- 2 TO 12- 2	12- 2 TO 12- 2
04417	WORLD BACKGROUND FOR AMERICAN HISTORY	1	3.00	12- 2 TO 12- 2	12- 2 TO 12- 2
	METHODS				
52858	RECOGNIZING AND SELECTING PROPER NOUNS	1	2.00	12- 2 TO 12- 2	12- 2 TO 12- 2

CONTENT AREA: G4-00 POLITICAL SCIENCE

SOURCE: MIDDLE URBAN UNIT

OBJECTIVE: 90232 THE STUDENT WILL BE ABLE TO SUMMARIZE THE VARIOUS STAGES OF A PRESIDENTIAL AND V. PRES. ELECTION AND APPLY THIS KNOWLEDGE BY ANSWERING SPECIFIC COMPLETION QUESTIONS RELATED TO AN EXAMPLE CASE.

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OBJECTIVE:  90247  THE STUDENT WILL BE ABLE TO RECALL SPECIFIC FACTS AND VOCABULARY
                   RELATED TO PASSING LEGISLATION

RESOURCE                                             NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                        TITLES                 OF USES  RATING      AGE              AGE
                                                              (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
07014  CIVICS FOR CITIZENS                              1       4.00 14- 8 TO 14- 8   8-10 TO  8-10
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OBJECTIVE:  90248  THE STUDENT WILL BE ABLE TO RECALL SPECIFIC FACTS AND VOCABULARY
                   RELATED TO COURTS IN THE UNITED STATES

RESOURCE                                             NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                        TITLES                 OF USES  RATING      AGE              AGE
                                                              (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
07014  CIVICS FOR CITIZENS                              1       4.00 14- 8 TO 14- 8   8-10 TO  8-10
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OBJECTIVE:  90450  THE STUDENT WILL ACHIEVE CRITERION ON AN OBJECTIVE TEST CONCERNING
                   FACTS ON THE UNITED STATES CONSTITUTION

RESOURCE                                             NUMBER    EFF   CHRONOLOGICAL       MENTAL
NUMBER                        TITLES                 OF USES  RATING      AGE              AGE
                                                              (1=HI)  -1SD TO +1SD   -1SD TO +1SD
      MATERIALS
07014  CIVICS FOR CITIZENS                              1       3.00 15- 1 TO 15- 1  **************
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G4-00 (CONTINUED)

CONTENT AREA: H1-01 SCI./TEMPERATURE, WEATHER

SOURCE: IOX

OBJECTIVE: 09591 TEMPERATURE AND WEATHER: THE CHILD WILL BE ABLE TO DISTINGUISH BETWEEN DIFFERENT TEMPERATURE AND WEATHER CONDITIONS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09592 GIVEN TWO OTHERWISE IDENTICAL OBJECTS AT DIFFERENT TEMPERATURES, THE CHILD WILL IDENTIFY WHICH IS THE WARMER OBJECT.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09594 GIVEN THE DAY'S WEATHER TO OBSERVE, THE CHILD WILL BE ABLE TO PICK THE MOST APPROPRIATE LABELS FROM THE FOLLOWING LIST: HOT, WARM, COOL, COLD, RAINY, CLOUDY, CLEAR, SNOWY.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09596 GIVEN A NUMBER OF DIFFERENT WEATHER CONDITIONS, THE CHILD CAN BOTH DESCRIBE THE CONDITIONS AND STATE THE IMPLICATIONS OF THESE CONDITIONS FOR HIS CONDUCT.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: H2-01 SCI./LIVING, NON-LIVING

SOURCE: IOX

OBJECTIVE: 09601 GENERAL CHARACTERISTICS: GIVEN LIVING AND INANIMATE OBJECTS (OR PICTURES OF SUCH OBJECTS), THE CHILD WILL BE ABLE TO SELECT THOSE THINGS WHICH ARE ALIVE AND STATE AT LEAST ONE PROPERTY OF THE OBJECT WHICH SHOWS IT IS ALIVE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09602 GIVEN PICTURES OF PLANTS, ANIMALS, AND INANIMATE OBJECTS, THE CHILD WILL BE ABLE TO SELECT THE PICTURES OF THE THINGS THAT ARE ALIVE.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09603 GIVEN A LIVING THING (ANIMAL OR PLANT), THE CHILD CAN STATE ONE FUNCTION THAT THE LIVING THING AND HUMANS HAVE IN COMMON.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09604 GIVEN A VARIETY OF LIVING THINGS, THE CHILD CAN IDENTIFY ONE FUNCTION THAT ALL THE LIVING THINGS HAVE IN COMMON.

NO IMPLEMENTATION RECORD 1973-1974

H2-01 (CONTINUED)

OBJECTIVE: 09605 ANIMALS: GIVEN THE NAME OF A FAMILIAR ANIMAL, THE CHILD WILL GIVE EVIDENCE OF BASIC KNOWLEDGE OF THE ANIMAL'S CHARACTERISTICS, HABITS, AND NEEDS. HE WILL ALSO BE ABLE TO CARE FOR CLASSROOM-TYPE ANIMALS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09606 GIVEN A PICTURE OF A FAMILIAR TYPE OF ANIMAL, THE CHILD WILL BE ABLE TO DESCRIBE ITS CHARACTERISTIC BEHAVIOR.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09607 GIVEN A DESCRIPTION OF CHARACTERISTIC ANIMAL BEHAVIOR, THE CHILD WILL BE ABLE TO SELECT FROM A GROUP OF PICTURES THAT PICTURE WHICH SHOWS THE ANIMAL DESCRIBED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09608 GIVEN A PICTURE OF A FAMILIAR ANIMAL IN ONE STAGE OF ITS LIFE CYCLE, THE CHILD WILL BE ABLE TO NAME A FUTURE STAGE.

NO IMPLEMENTATION RECORD 1973-1974

H2-01 (CONTINUED)

OBJECTIVE: 09609 GIVEN A FAMILIAR ANIMAL (RABBIT, CAT, BIRD, FISH, ETC.) THE CHILD CAN STATE THOSE BODY FUNCTIONS THAT THE ANIMAL AND HUMAN BODIES HAVE IN COMMON AND HOW THEY DIFFER.

NO IMPLEMENTATION RECORD 1973-1974

CONTENT AREA: H3-01 SCI./STATES OF MATTER

SOURCE: IOX

OBJECTIVE: 09586 STATES OF MATTER: THE CHILD WILL BE ABLE TO IDENTIFY THE STATE OF MATTER (GAS, LIQUID, SOLID), AND EXPLAIN AND DESCRIBE CHANGES IN THESE STATES.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09587 GIVEN A FAMILIAR OBJECT, THE CHILD CAN IDENTIFY IT AS SOLID, LIQUID, OR GAS.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09588 GIVEN A PROBLEM WHICH CALLS FOR CHANGING SOLIDS TO LIQUIDS AND VICE VERSA, THE CHILD WILL SUGGEST APPLYING HEAT OR COLD APPROPRIATELY.

NO IMPLEMENTATION RECORD 1973-1974

H3-01 (CONTINUED)

OBJECTIVE: 09589 GIVEN A DEMONSTRATION OF A SOLID DISSOLVING IN A LIQUID OR GAS, THE CHILD WILL BE ABLE TO DESCRIBE WHAT HAS HAPPENED.

NO IMPLEMENTATION RECORD 1973-1974

OBJECTIVE: 09590 GIVEN EXAMPLES OF AN OBJECT BEFORE AND AFTER IT HAS UNDERGONE SOME PHYSICAL CHANGE, THE CHILD WILL BE ABLE TO DESCRIBE AND EXPLAIN THE CHANGES.

NO IMPLEMENTATION RECORD 1973-1974